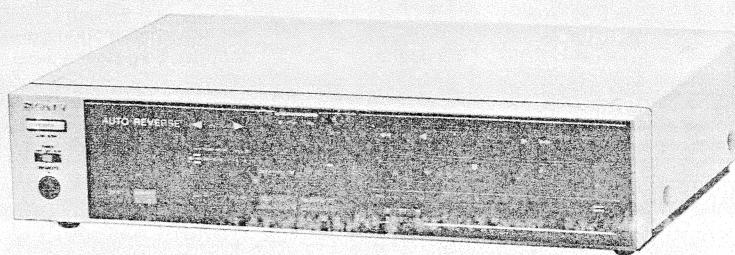


TC-V7

US Model
Canadian Model
AEP Model
UK Model
E Model



'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

STEREO CASSETTE DECK

SPECIFICATIONS

Recording system 4-track 2-channel stereo

Fast-forward and rewind time

Approx. 100 sec. (with C-60 cassette)

Bias frequency 105 kHz

Signal-to-noise ratio (NAB, at peak level)

Cassette	Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METALLIC)		58 dB	65 dB	71 dB
TYPE III (Sony FeCr)		59 dB	66 dB	72 dB
TYPE II (Sony UCX)		57 dB	64 dB	70 dB
TYPE I (Sony BHF)		54 dB	61 dB	67 dB

Total harmonic distortion

1.0% (with Sony METALLIC and FeCr cassettes)

Frequency response DOLBY NR OFF

- With TYPE IV cassette (Sony METALLIC)
20 - 17,000 Hz
30 - 15,000 Hz (± 3 dB)
30 - 13,000 Hz (± 3 dB, 0 VU recording)
30 - 15,000 Hz (DIN)
- With TYPE III cassette (Sony FeCr)
20 - 16,000 Hz
30 - 15,000 Hz (± 3 dB)
30 - 15,000 Hz (DIN)
- With TYPE II cassette (Sony UCX)
20 - 16,000 Hz
30 - 15,000 Hz (± 3 dB)
30 - 15,000 Hz (DIN)
- With TYPE I cassette (Sony BHF)
20 - 15,000 Hz
30 - 14,000 Hz (DIN)

0 dB = 0.775 V

Tape Transport Mechanism Type	TCM-130RH1
-------------------------------	------------

— Continued on Page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT
A LA SECURITE!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET
UNE MARQUE  SUR LES DIAGRAMMES SCHEMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES
POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES
SONY DONT LES NUMÉROS SONT DONNÉS DANS CE
MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR
SONY.

SONY
SERVICE MANUAL



MICROFILM

General	
Inputs	Power requirements AEP model: 220 V ac, 50/60 Hz (240 V ac adjustable by authorized Sony personnel)
Outputs	UK model: 240 V ac, 50/60 Hz (220 V ac adjustable by authorized Sony personnel)
	US, Canadian model: 120V ac, 60 Hz
	E model: 110, 120, 220 or 240 V ac adjustable, 50/60 Hz
	AC outlet US, Canadian, AEP model: 1 unswitched, 100 watts max.
	UK model: 1 switched, 100 watts max.
	Power consumption AEP, UK model: 22 watts
	US, Canadian model: 20 watts
	E model: 21 watts
	Dimensions Approx. 355 x 80 x 280 mm (w/h/d) (14 x 3 1/4 x 11 1/4 inches)
	Weight including projecting parts and controls
	Approx. 5 kg (11 lbs 1 oz)

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

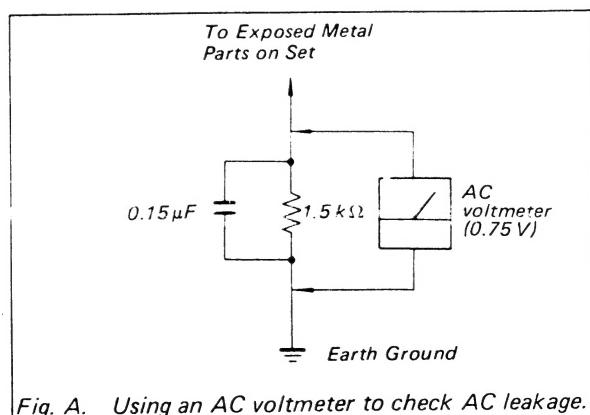


Fig. A. Using an AC voltmeter to check AC leakage.

STEREO CASSETTE DECK

TC-V

US Model

Canadian Model

AEP Model

E Model

UK Model

SUPPLEMENT

File this supplement with the service manual.

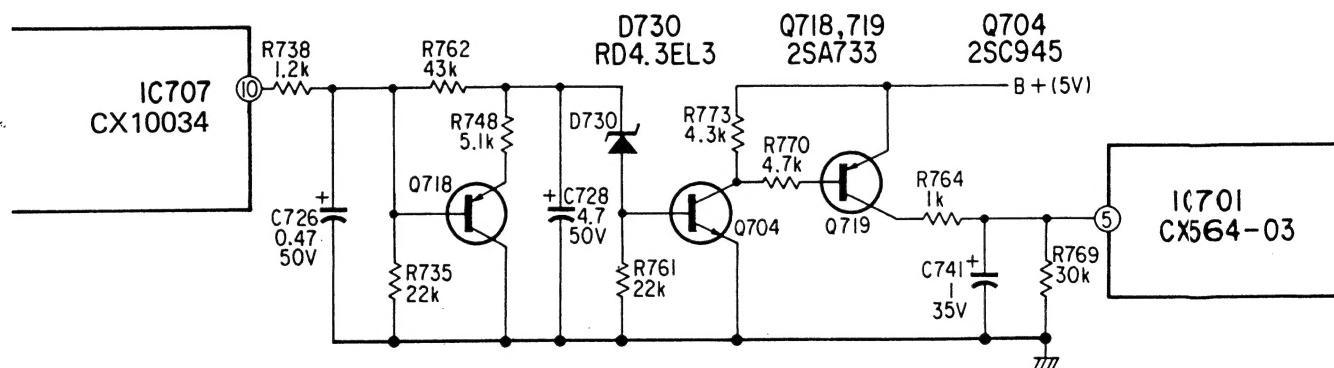
Subject: SYSTEM CONTROL CIRCUIT CHANGE

- System control IC (IC701) and circuit have been changed.
When replacing IC701, Use replacement IC with same type No. as original IC.

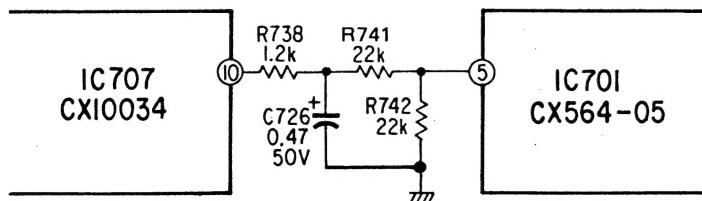
No. 1
June, 1983

1. CHANGED CIRCUIT

- Former



• New



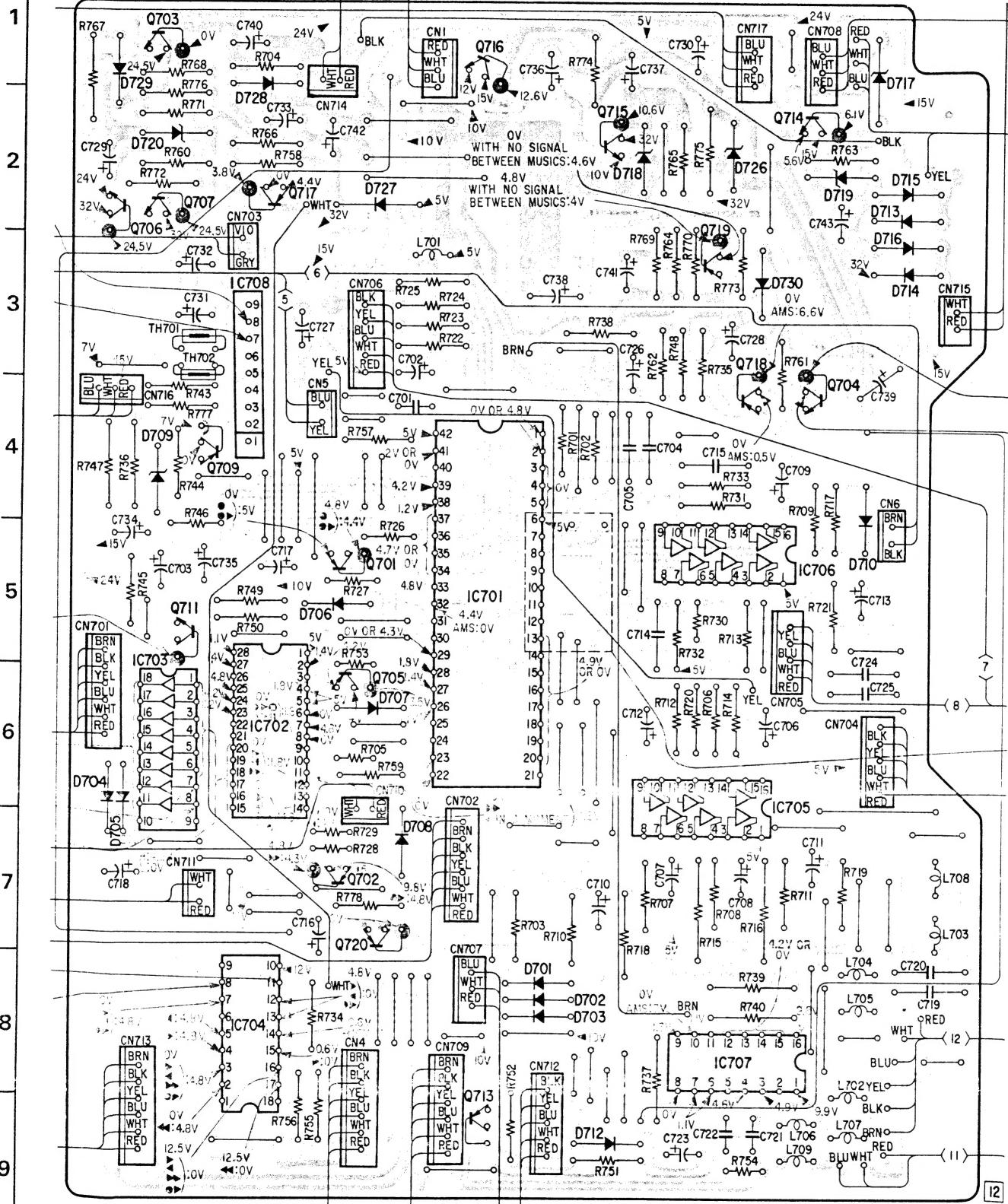
SONY **SERVICE MANUAL**

2. CHANGED MOUNTING DIAGRAM

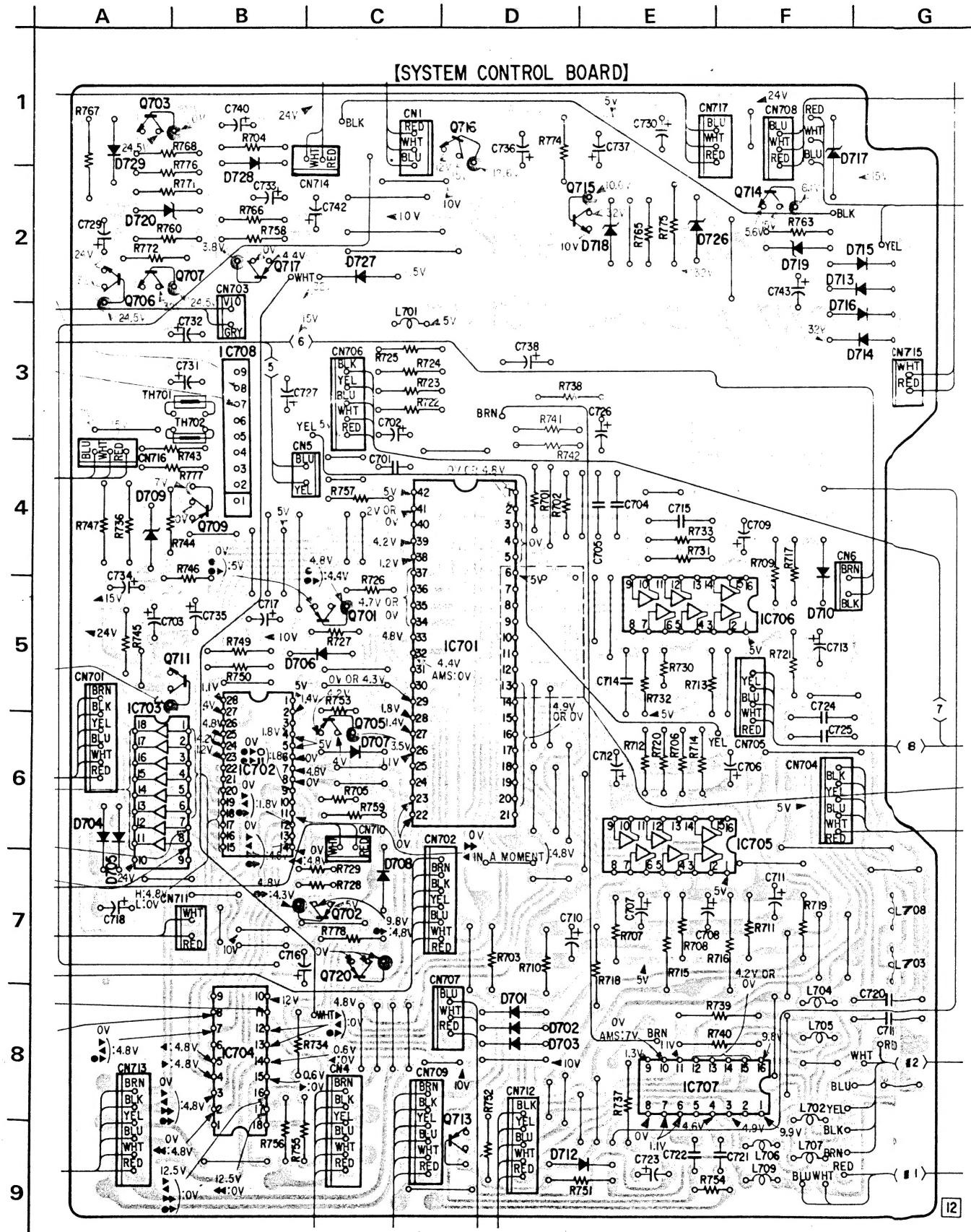
• Former

A | B | C | D | E | F | G

[SYSTEM CONTROL BOARD]



- **New**



3. CHANGED PARTS

Ref. No.	Former Parts			New Parts		Remarks
	Description		Part No.	Description		
C728	TANTALUM	4.7MF	16V	.....		DELETED
C741	TANTALUM	1MF	35V	.....		DELETED
D730	DIODE	RD4.3EL3		.....		DELETED
IC701	IC	CX564-03	8-755-640-50	IC	CX564-05	CHANGED
R735	CARBON	22K		.....		DELETED
R741	.....		1-246-505-00	CARBON	22K	ADDED
R742	.....		1-246-505-00	CARBON	22K	ADDED
R748	CARBON	5.1K		.....		DELETED
R761	CARBON	22K		.....		DELETED
R762	CARBON	43K		.....		DELETED
R764	CARBON	1K		.....		DELETED
R769	METAL	30K		.....		DELETED
R770	CARBON	4.7K		.....		DELETED
R773	CARBON	1K		.....		DELETED
Q704	TRANSISTOR	2SC1364		.....		DELETED
Q718	TRANSISTOR	2SA1027R		.....		DELETED
Q719	TRANSISTOR	2SA1027R		.....		DELETED

4. CHANGED FUSE (E Model)

	Former	New
F1	▲ 1-532-078-00 FUSE, TIME-LAG	→ ▲ 1-532-453-XX FUSE, GLASS TUBE
F2	▲ 1-532-078-00 FUSE, TIME-LAG	→ ▲ 1-532-453-XX FUSE, GLASS TUBE

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

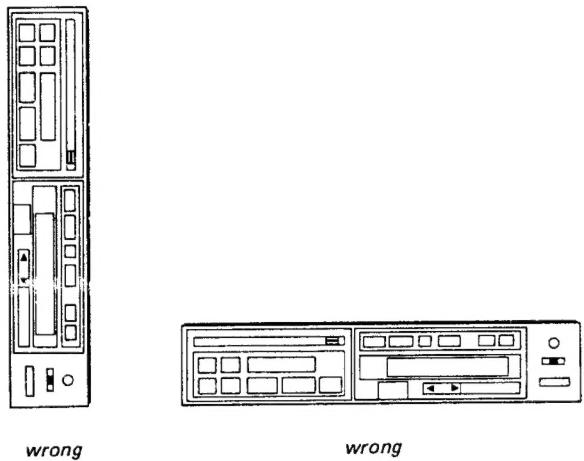
Sony Corporation
Consumer Products Group
Technical Support Dept.

SECTION 1
OUTLINE

1-1. FEATURE

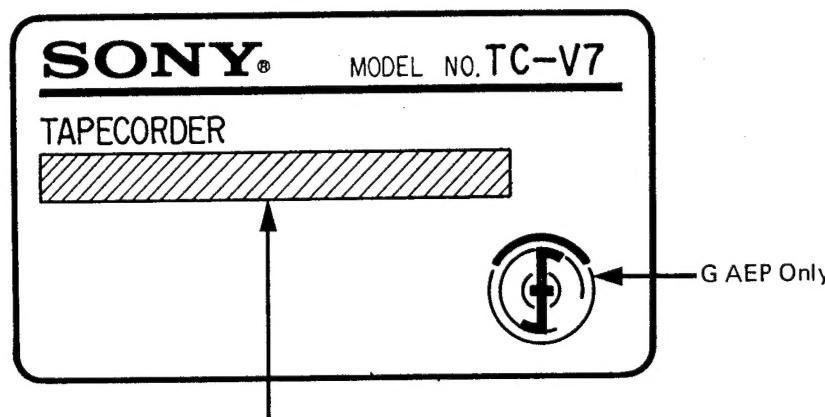
NOTES ON REPAIR

When the mechanism section is operated with the set in an upside-down position, misoperation may result. For repair while operating the mechanism section, perform with the set in its normal position or standing on its side.



MODEL IDENTIFICATION

—Specification label on jack plate—



US, Canadian : AC: 120V 60Hz 20W
AEP, G AEP : AC: 220V ~ 50/60Hz 22W
UK : AC: 240V ~ 50/60Hz 22W
E : AC: 110, 120, 220, 240V ~ 50/60Hz 21W

Auto-reverse playback with roto-bilateral record/playback head
AMS (Automatic Music Sensor)

The AMS locates a selection as far ahead as 9 selections or as far back as 8 selections and plays the selection back automatically.

Cycle Play

Using the  cycle key, both sides of the cassette can be played back five times in succession.

Other useful functions

- The newly-developed C-type Dolby NR system which reduces tape noise twice as effectively as the conventional B-type system is incorporated.
- The digital linear counter indicates the elapsed recording or playback time in minutes and seconds, and indicates the recording time remaining with a minus sign.
- The peak level meters, digital linear counter, and other indicators in use are all displayed in the bright FL-display window.
- The automatic tape select system adjusts the cassette deck to the optimum recording and playback characteristics for each tape type.
- A timer switch is provided to turn the deck on and off at times preset on an optional timer.
- Various remote control operations are possible using the optional RM-70 remote control unit, the RM-65 synchro remote control unit (for synchronized operation with the turntable) or the ST-V7 system control tuner (for remote control of the audio system).

Newly-developed Laser Amorphous head

The record-playback head is made of a special amorphous magnetic alloy developed by Sony, and its cores are solidly welded by laser. This new highly durable head provides a wider dynamic range and a more extended frequency response, especially in the high-frequency range. The head is designed to take full advantage of the potential of metal tapes.

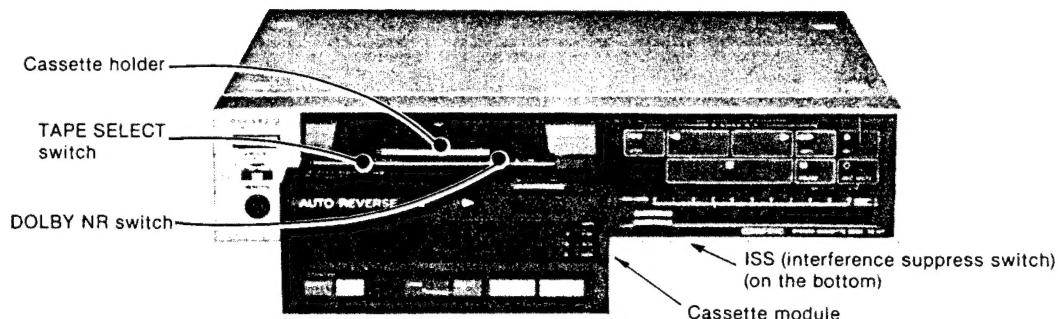
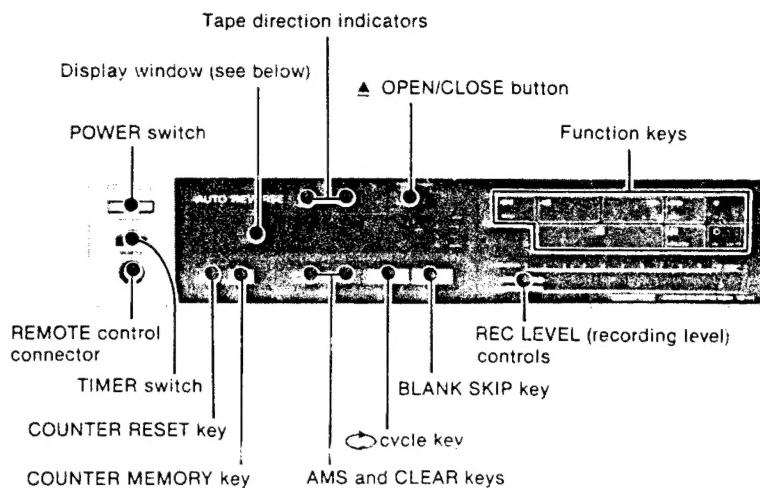
Ultra slim cabinet

Touch a button and the cassette module slides smoothly out. The use of this cassette module with a linear skating power loading mechanism makes it possible to reduce the height of the cabinet to 70mm.

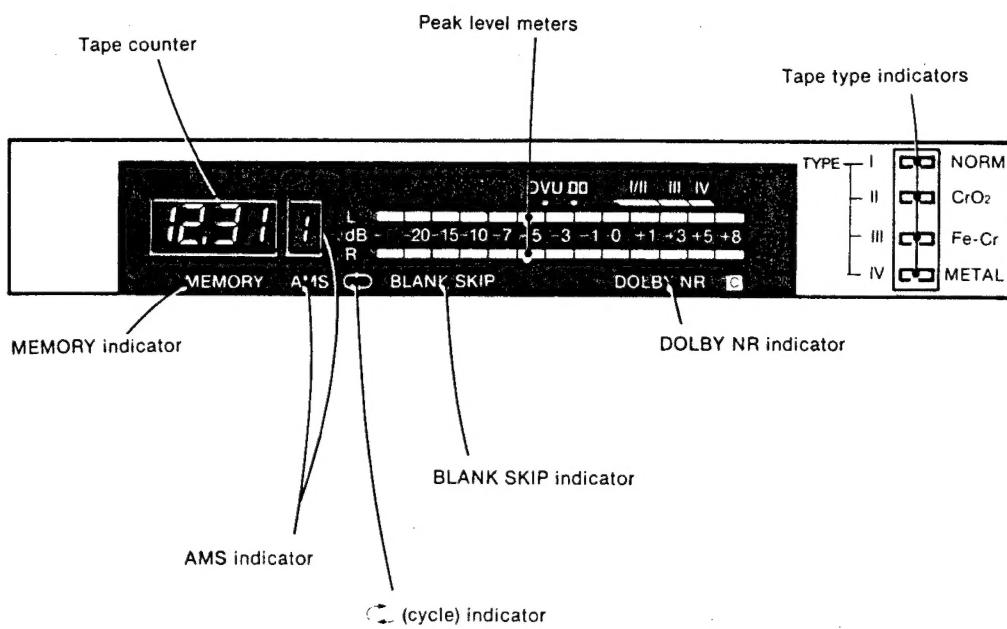
Blank skip function

Blank spaces of at least 10 seconds long can be skipped in either fast-forward or fast-reverse mode so that only the recorded portions of the tape are played back.

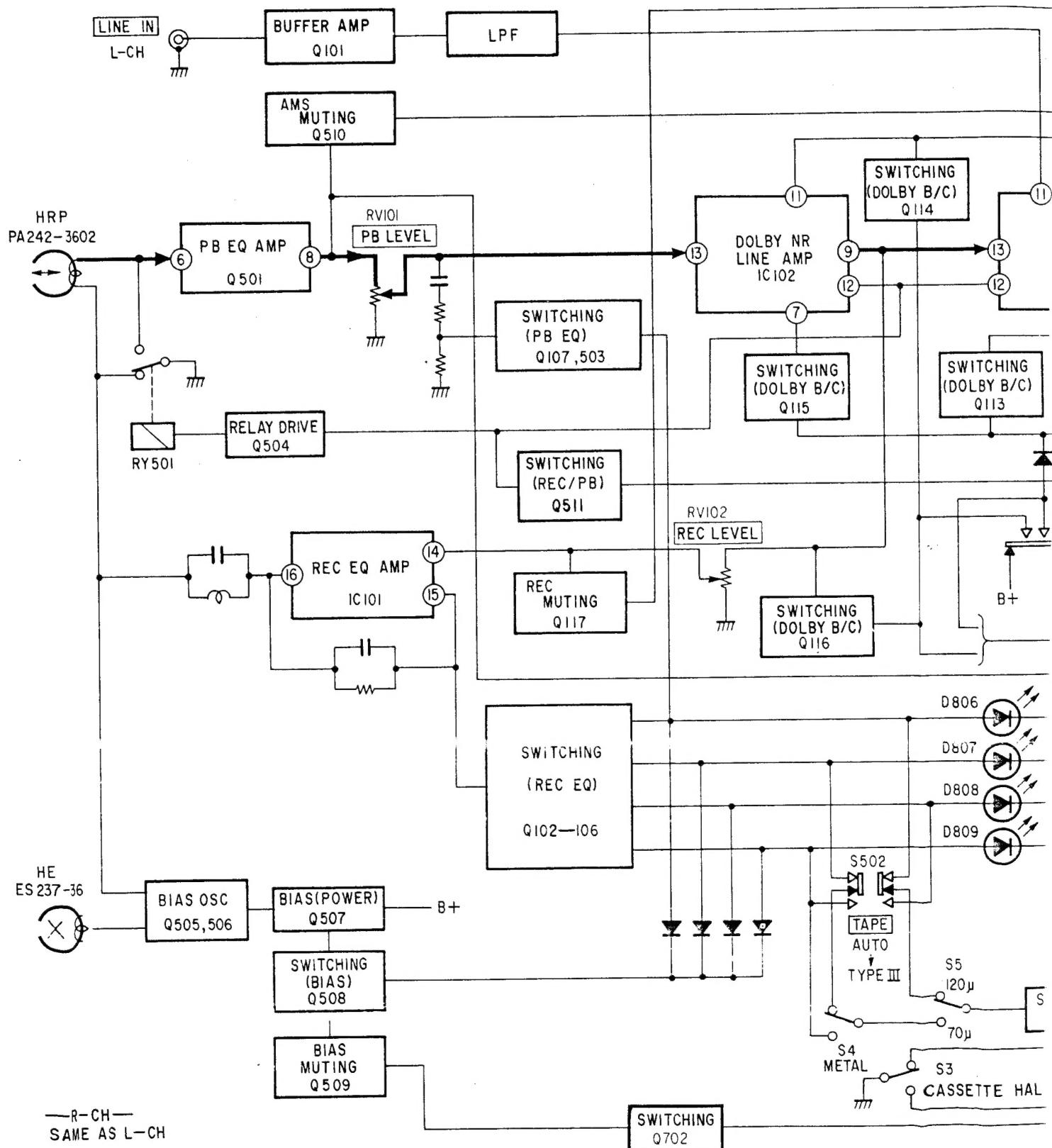
1-2. FUNCTION OF CONTROL

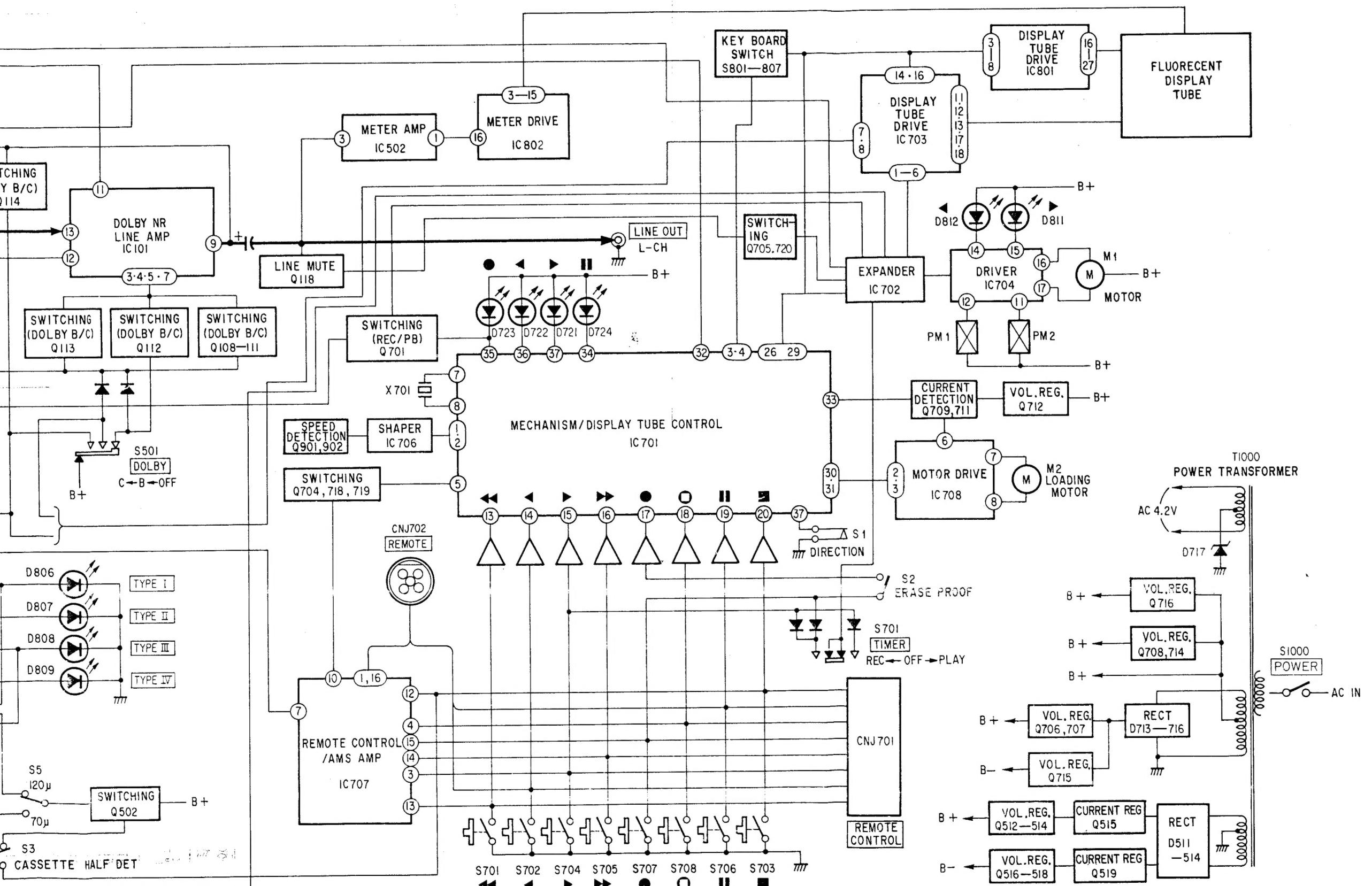


Display window



1-3. BLOCK DIAGRAMS





SECTION 2

OPERATION DESCRIPTION

2-1. MECHANICAL SECTION OPEN/CLOSE OPERATION

The mechanical section on this set can be opened and closed simply by pushing the OPEN/CLOSE button, due to the linear skating structure.

IC708 is for driving the loading motor (M2) which moves the mechanism. Pins ② and ③ are input pins and ⑦ and ⑧ are output pins. Pin ⑥ is the power supply pin and ⑤ is the ground.

The forward and reverse rotation of the motor is performed by the 1 and 0 combination of input pins ② and ③. Microcomputer IC701 inputs to pins ② and ③. The truth table for IC708 is as follows:

	Input		Output	
IC708 pin no.	②	③	⑦	⑧
during OPEN	H	L	H	L
during CLOSE	L	H	L	H
Stop	H	H	L	L

(1) CLOSE → OPEN

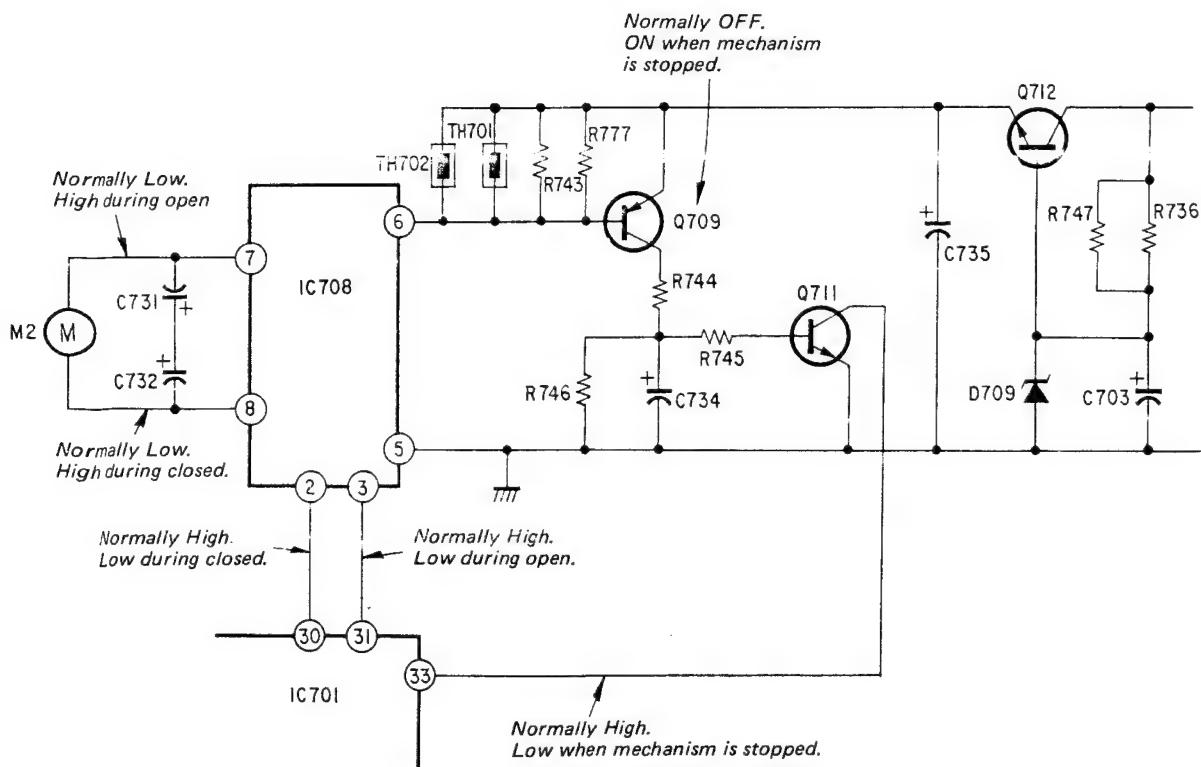
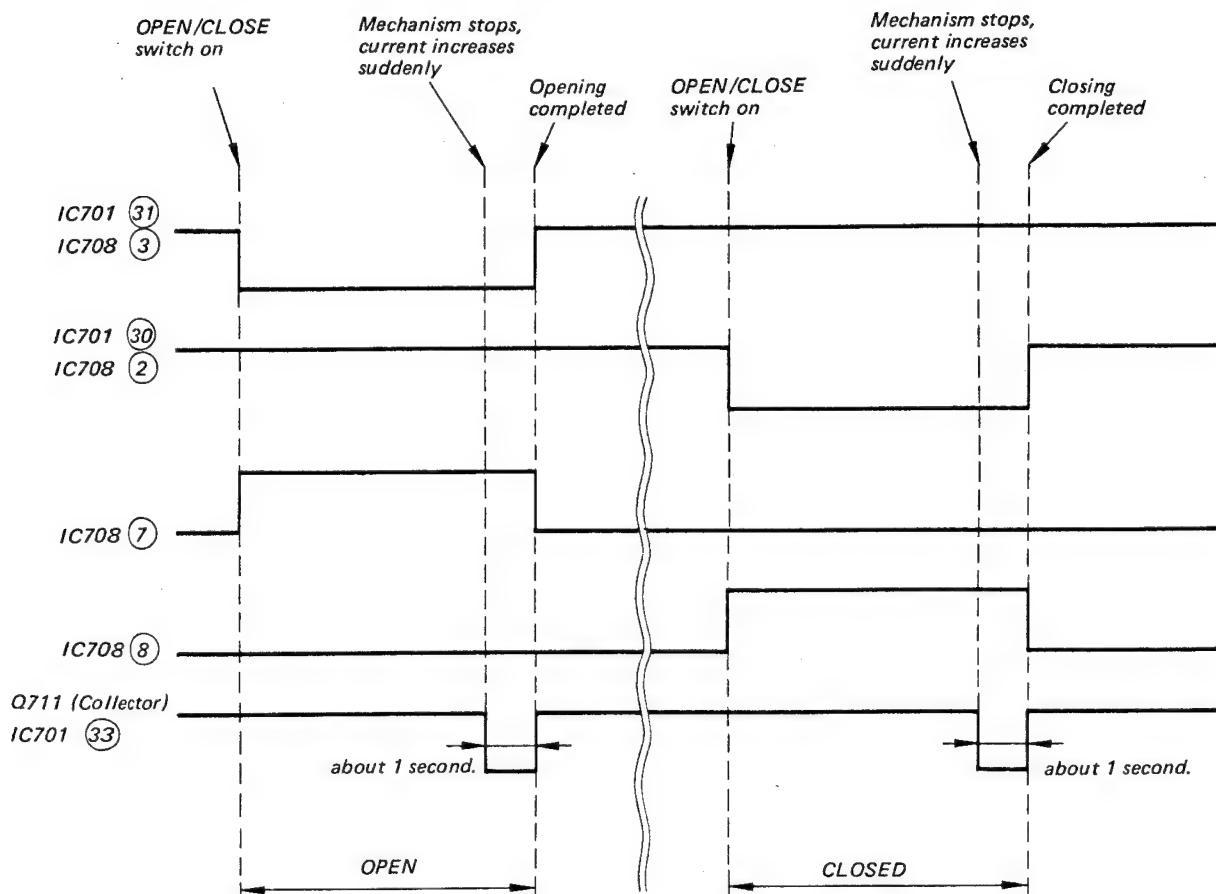
When the OPEN/CLOSE button is pressed while the mechanism is closed, IC701 pin ③1 goes from high to low, IC708 pin ⑦ goes high, pin ⑧ goes low, the motor rotates and the mechanism opens. Even when the mechanism opens completely and stops, IC708 pin ⑦ and ⑧ remain high and low, and voltage continues to be applied to the motor, so the current flowing to IC708 pin ⑥ increases suddenly. When the current increases, Q709 base potential drops and Q709 turns on. When Q709 turns on, Q711 turns on. This causes IC701 pin ③3 to drop to 0V, and "Mechanism open" is input to IC701. When IC701 pin ③3 becomes 0V, IC701 pin ③1 goes from low to high and IC708 pins ⑦ and ⑧ go low. Voltage ceases to be applied to the motor and opening is completed.

(2) OPEN → CLOSE

When the OPEN/CLOSE button is pressed while the mechanism is open, IC701 pin ③0 goes from high to low, IC708 pin ⑦ goes low and pin ⑧ goes high, the motor rotates in reverse and the mechanism closes. Even when the mechanism closes completely and stops, IC708 pins ⑦ and ⑧ remain low and high, and voltage continues to be applied to the motor, so the current flowing to IC708 pin ⑥ increases suddenly. When the current increases, Q709 base potential drops and Q709 turns on. When Q709 turns on, Q711 base potential drops and it goes on. This causes IC701 pin ③3 to drop to 0V, and "mechanism closed" is input to IC701. When IC701 pin ③3 becomes 0V, IC701 pin ③0 goes from low to high and IC708 pins ⑦ and ⑧ go low. Voltage ceases to be applied to the motor and closing is completed.

(When power is turned on and IC701 is reset, IC701 regards the mechanism as closed.)

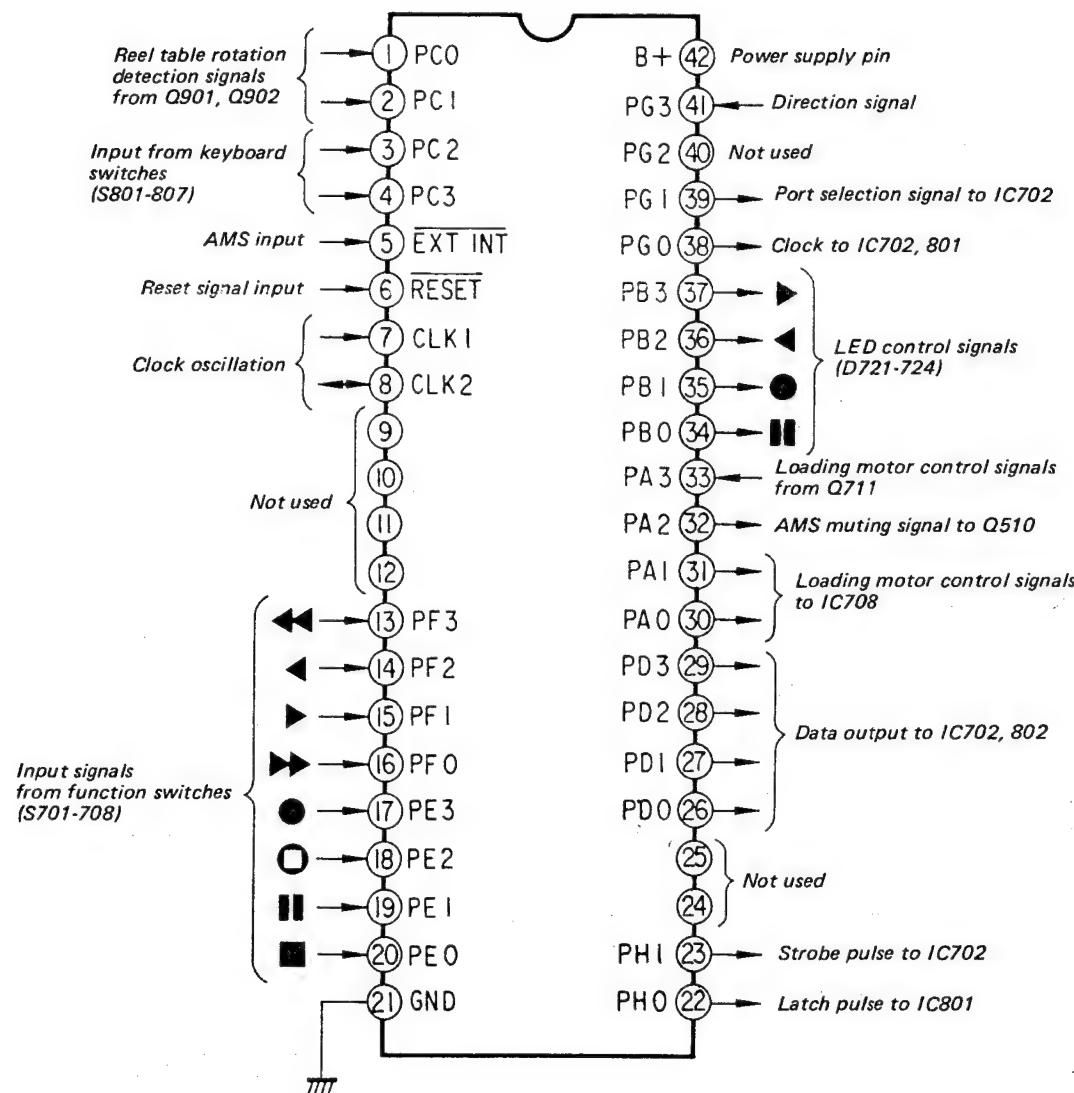
2-2. OPEN/CLOSED OPERATION TIMING CHART



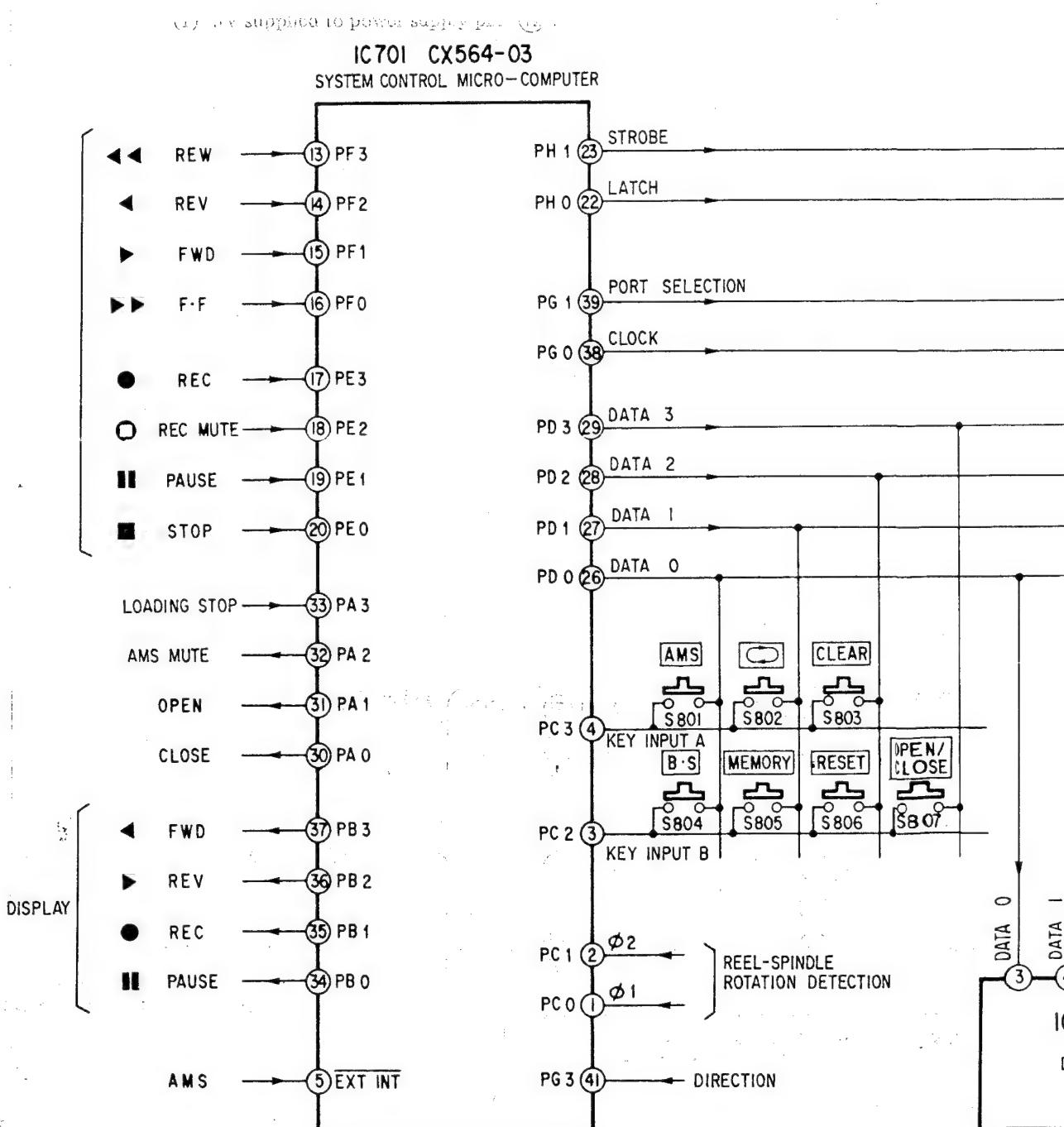
2-3. SYSTEM CONTROL MICROCOMPUTER (IC701)

Conditions for IC701 beginning to operate:

- (1) 5V supplied to power supply pin ④②.
- (2) Reset pin ⑥ goes to 5V from 0V.
- (3) Clock pins ⑦ and ⑧ are oscillating at 4MHz or 3.99MHz.

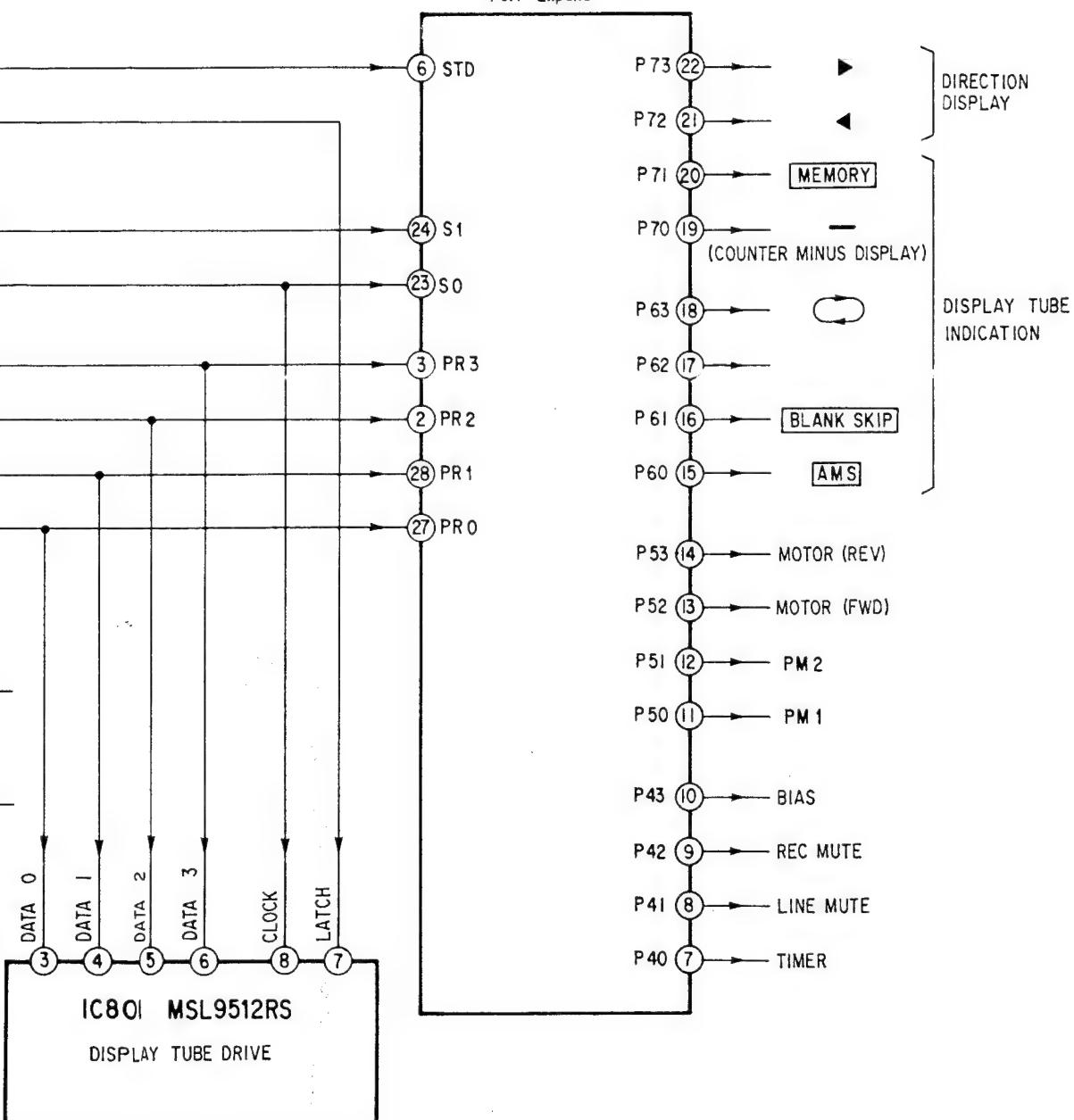


2-4. PORT MAP



IC702 M50783SP

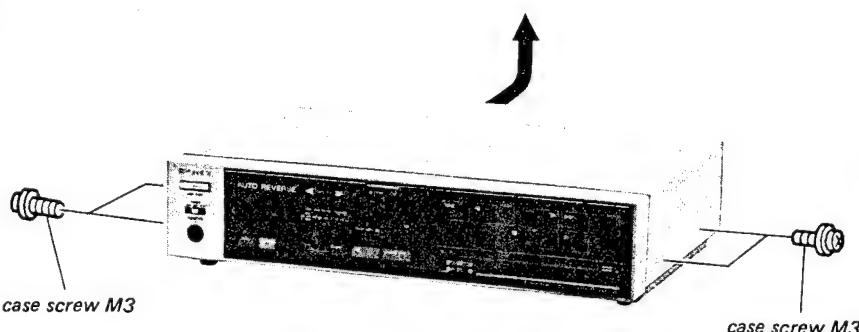
Port Expand



SECTION 3 DISASSEMBLY

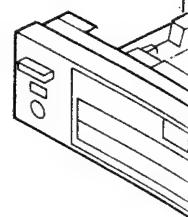
Note: Follow the disassembly procedure in the numerical order given.

CASE REMOVAL

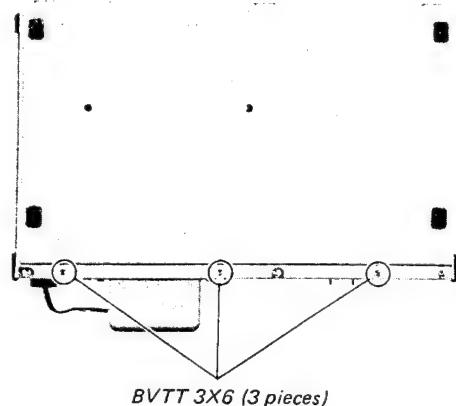


PLAYBACK BOARD REM

① +PTPWH3X5
(2 pieces)

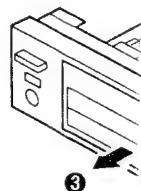


BOTTOM PLATE REMOVAL

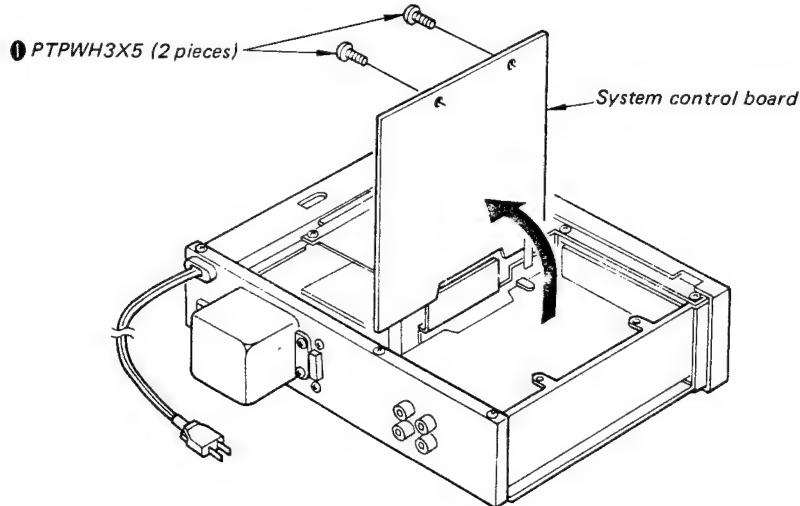


MECHANISM SECTION

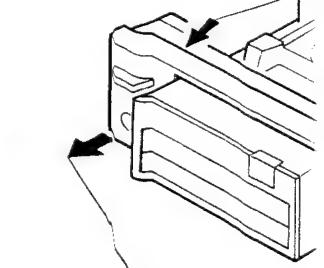
② Remove the
Joint (B)



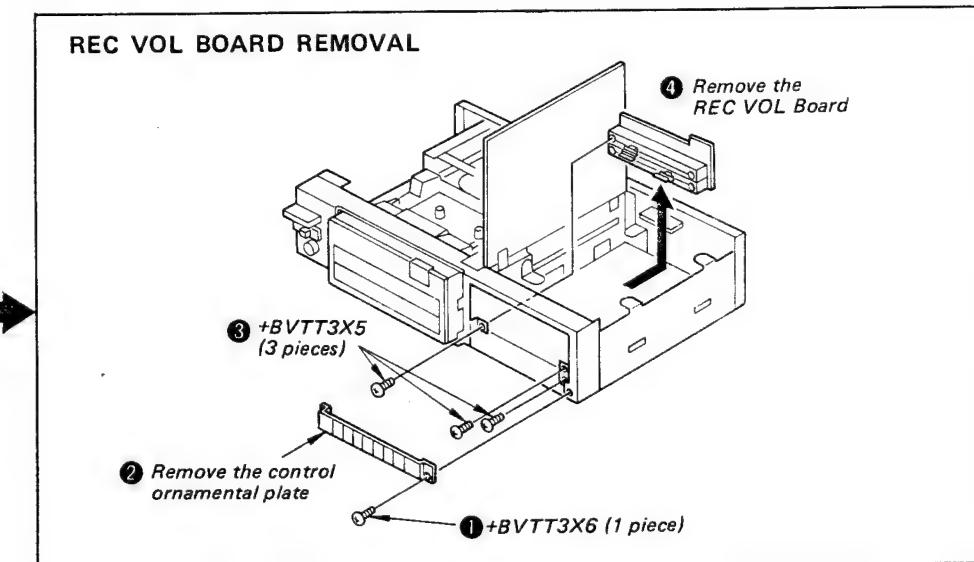
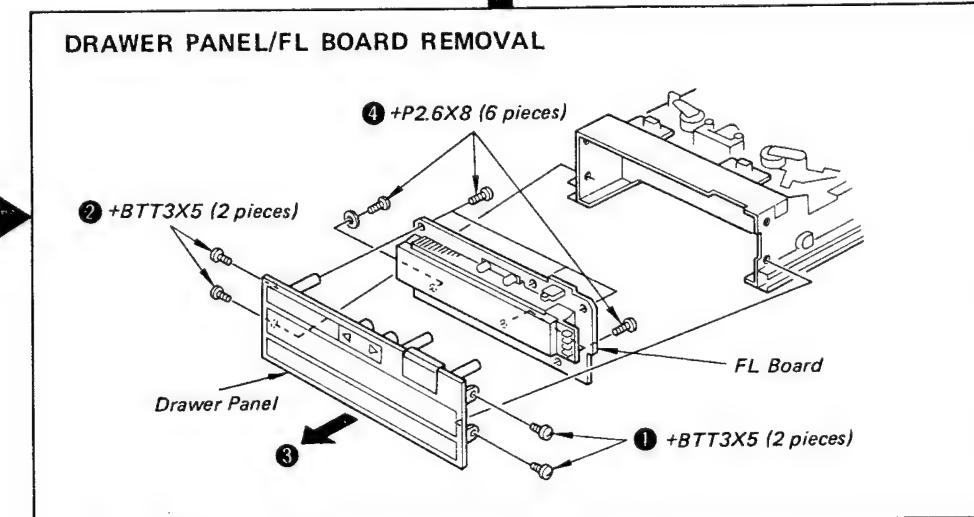
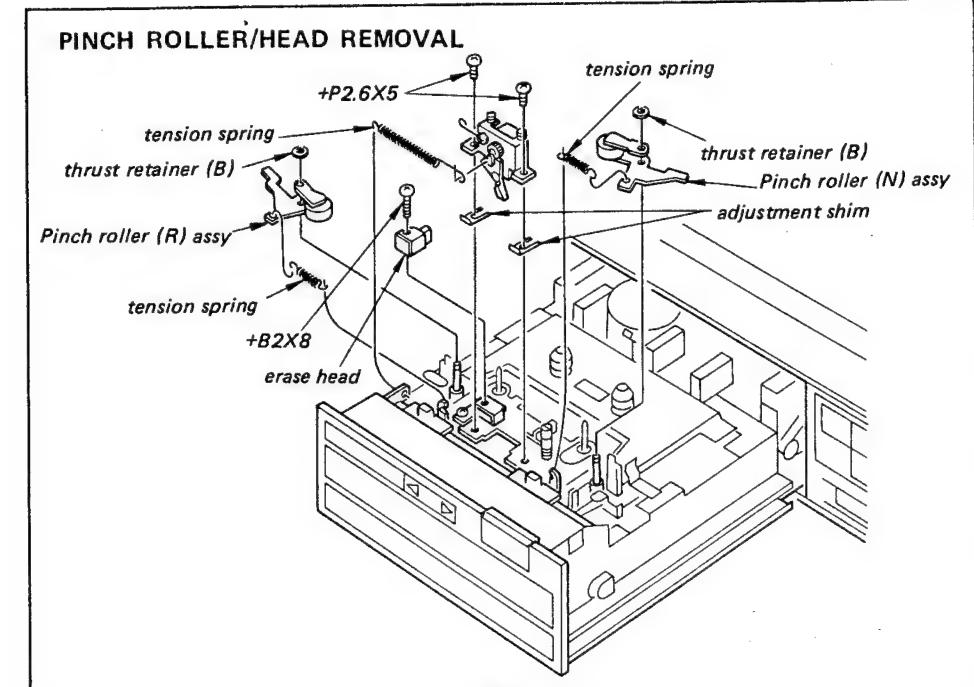
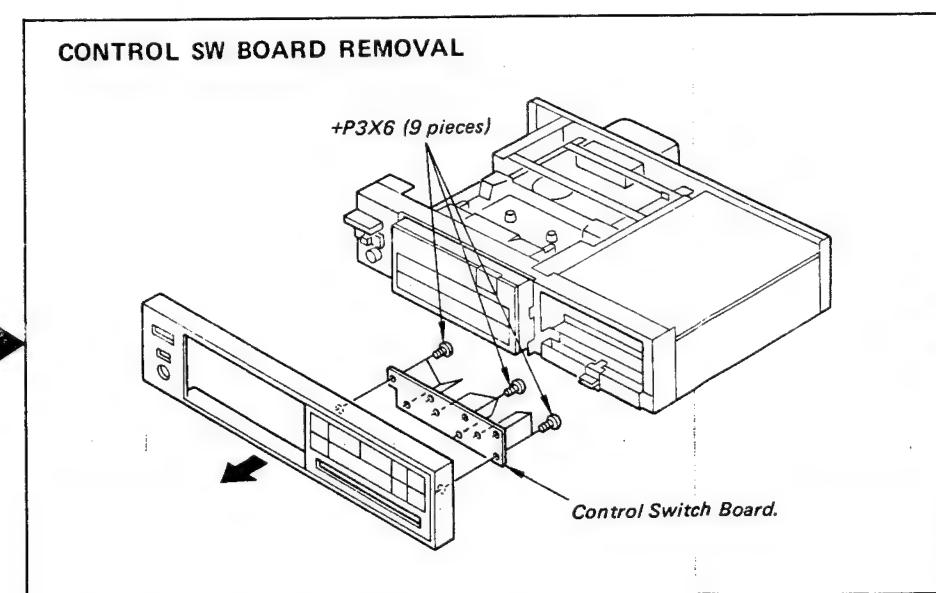
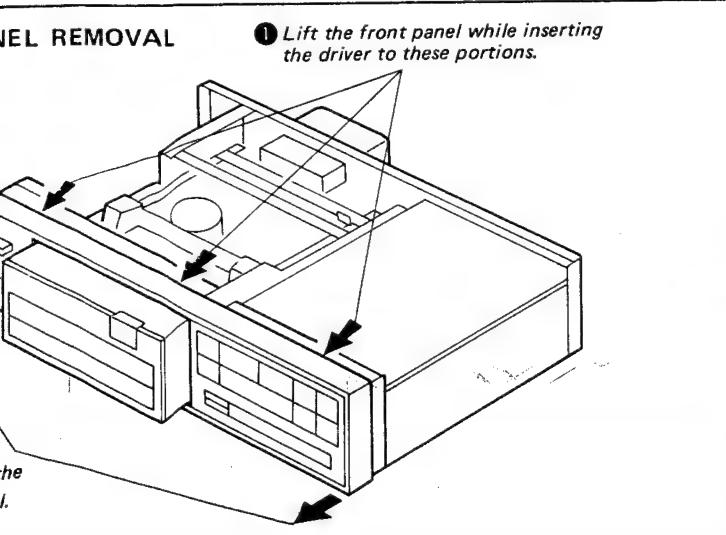
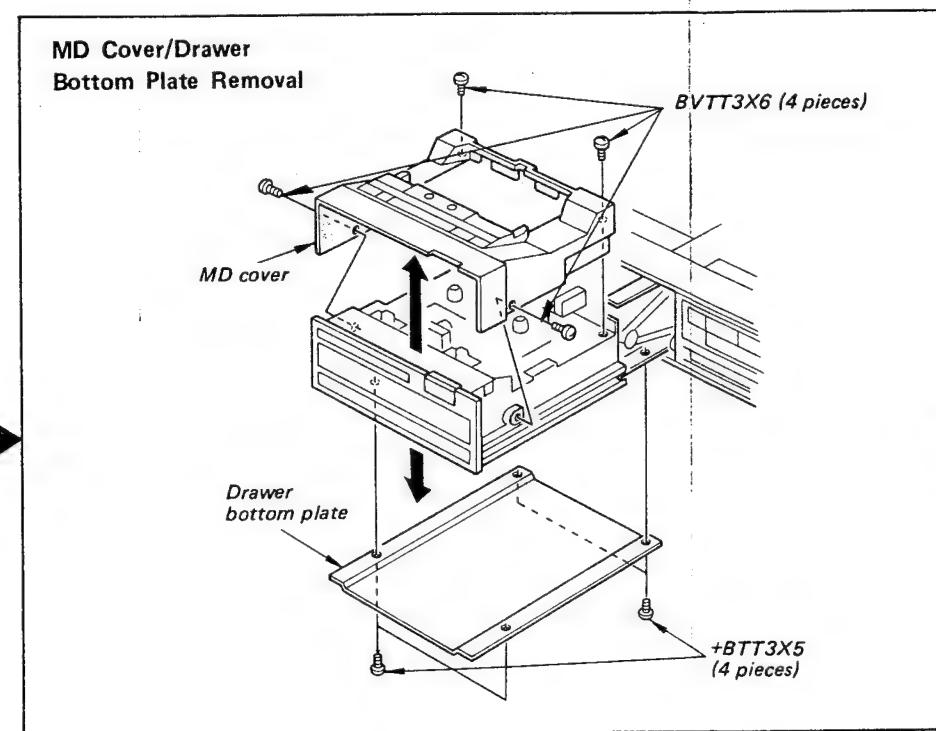
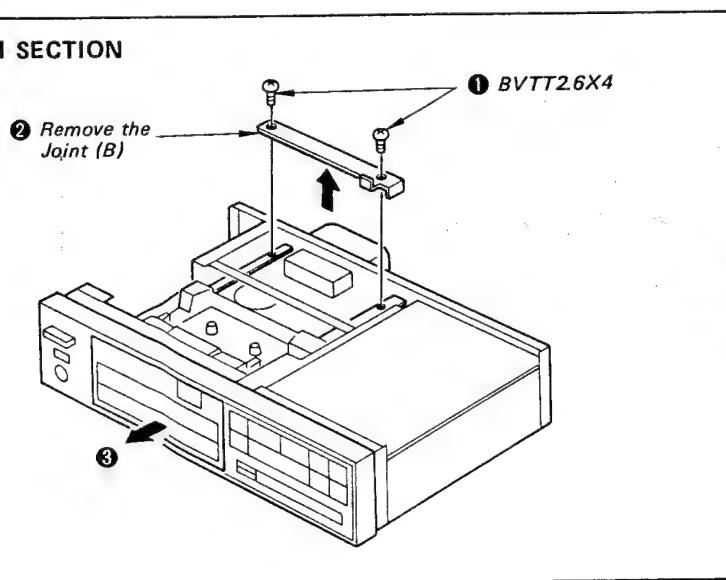
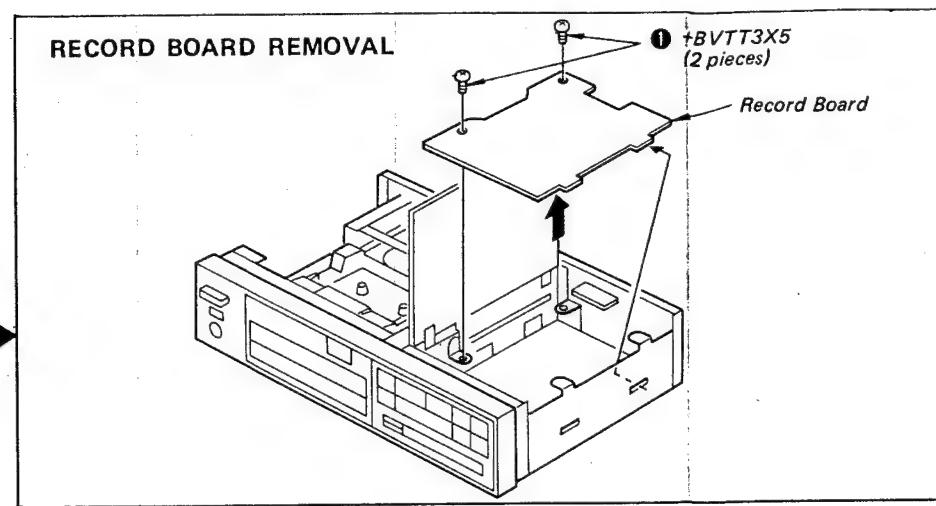
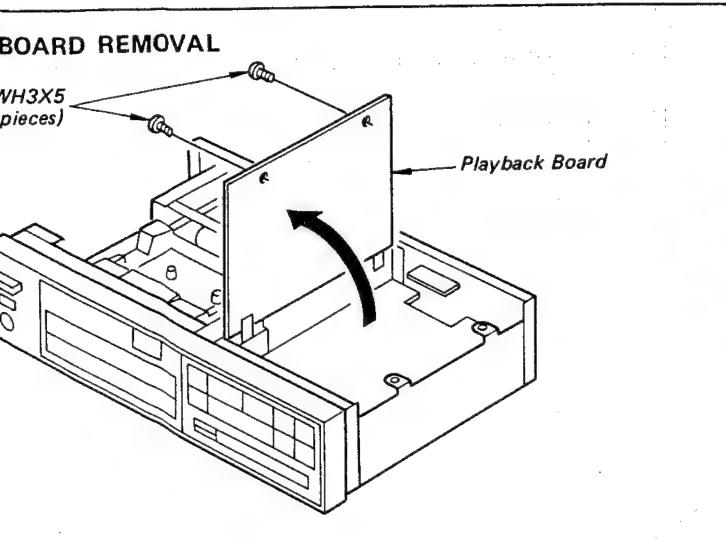
SYSTEM CONTROL BOARD REMOVAL



FRONT PANEL REMOVAL



② Draw out the
front Panel.



SECTION 4 ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

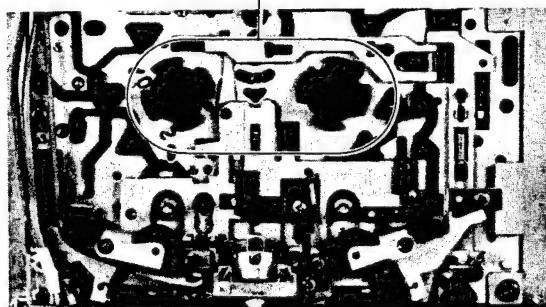
PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idle
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Torque
Forward	CQ-102C	28-60 g·cm 0.39-0.82 oz·inch
FWD back tension	CQ-102C	2-7 g·cm 0.03-0.1 oz·inch
Reverse	CQ-102RB	28-60 g·cm 0.39-0.82 oz·inch
REV back tension	CQ-102RB	2-7 g·cm 0.03-0.1 oz·inch



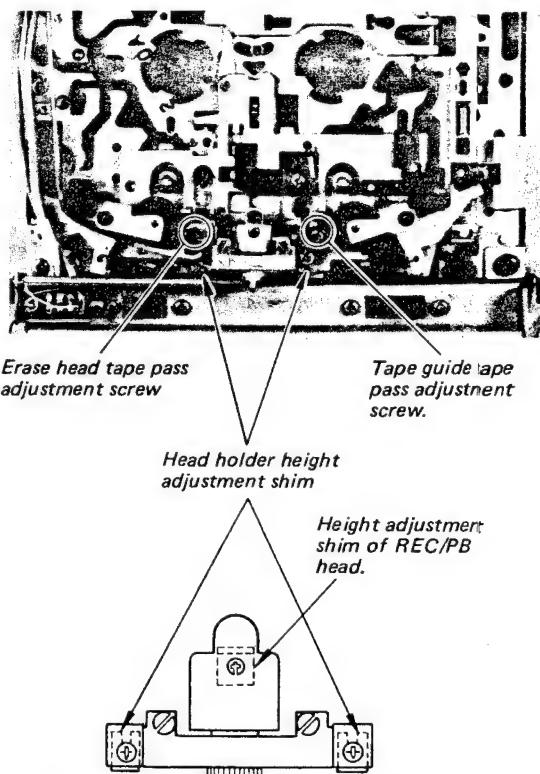
The height adjustment shim of the head holder assembly.

Thick (mm)	Parts No.
0.05	3-307-477-41
0.1	3-307-477-01
0.2	3-307-477-11
0.3	3-307-477-21
0.4	3-307-477-31

TAPE PATH ADJUSTMENT

When assembling the erase head and head holder, and when replacing the tape guide (L), be sure to perform the following adjustments.

1. Using a mirror tape cassette, adjust each of the adjustment screws until there is no tape curling.
2. Perform adjustments by changing the height adjustment shim of the head holder assembly and the height adjustment shim of the record/playback head, so that the core of the record/playback head is positioned correctly for both FWD and REV.



Enlarged view of head holder assembly

3. After the adjustment, lock the screws with locking compound.

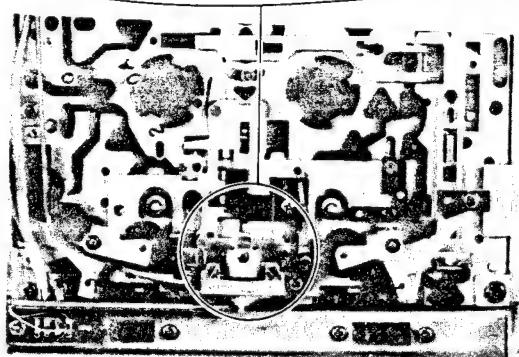
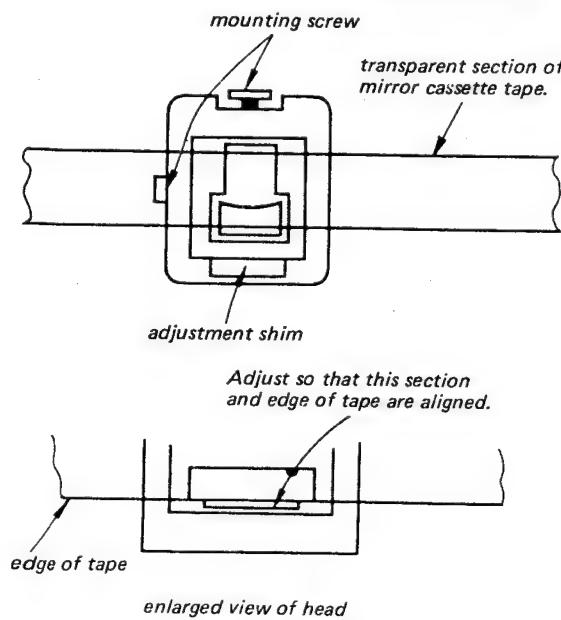
The height adjustment shim of the REC/PB head.

Thick (mm)	Parts No.
0.05	3-307-480-02
0.1	3-307-479-01
0.2	3-307-479-11
0.3	3-307-479-21
0.4	3-307-479-31

RECORD/PLAYBACK HEAD HEIGHT ADJUSTMENT

The following adjustments should be made when the record/playback head is replaced.

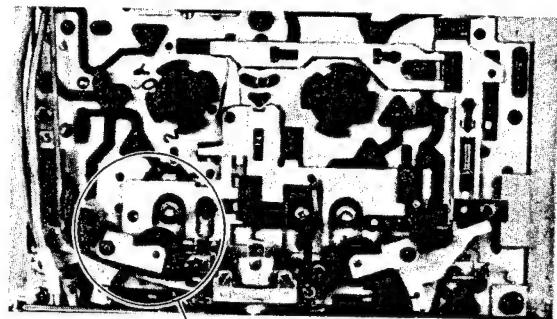
1. The head should be made after removing the head pad of the mirror tape cassette.
2. Using the leader section of the mirror cassette tape, adjustments are made by changing the adjusting shim so that the core and the edge of the tape become as shown in the illustration below when the tape is moved across the head.



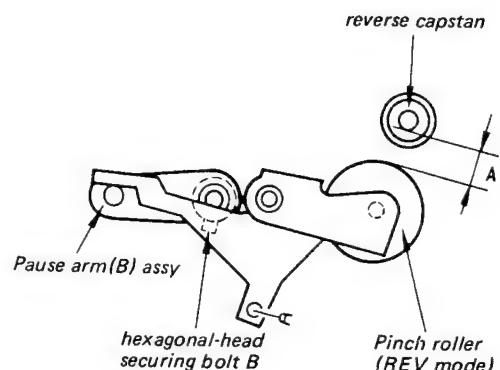
The height adjustment shim of the REC/PB head

Thick (mm)	Parts No.
0.05	3-307-480-02
0.1	3-307-479-01
0.2	3-307-479-11
0.3	3-307-479-21
0.4	3-307-479-31

PAUSE ARM POSITION ADJUSTMENT



Loosen the hexagonal-head securing bolt B and adjust the position of the pause arm B so that the distance of A becomes 0.5 mm ~ 1.0 mm.



4-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Set the TAPE switches according to the tape as follows.

Tape	TAPE switch
CS-10	TYPE I
CS-20	TYPE II
CS-30	TYPE III
CS-40	TYPE IV

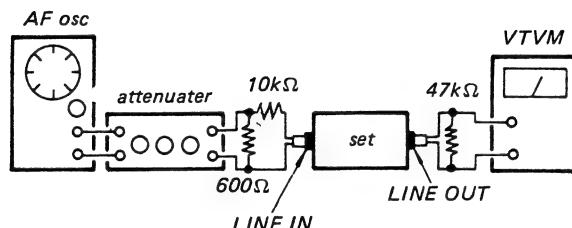
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch:	OFF
TAPE switch:	TYPE I
TIMER switch:	OFF

Standard Record :

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

—Record Mode—



Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

Standard Output Level

	LINE OUT
load impedance	47 kΩ
output level	0.44 V (-5 dB)

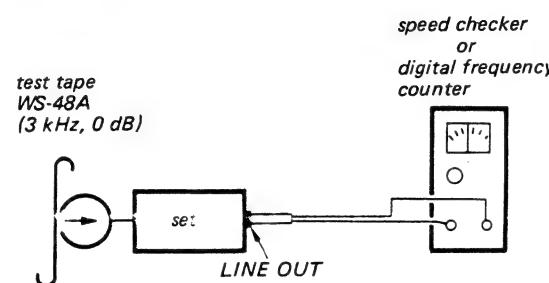
Tape Speed Adjustment

Setting:

Tape Selector Switch AUTO
Dolby NR switch OFF

Procedure:

Mode: PLAYBACK



Using test tape WS-48A adjust the variable resistor that built in motor so that the specification is met.

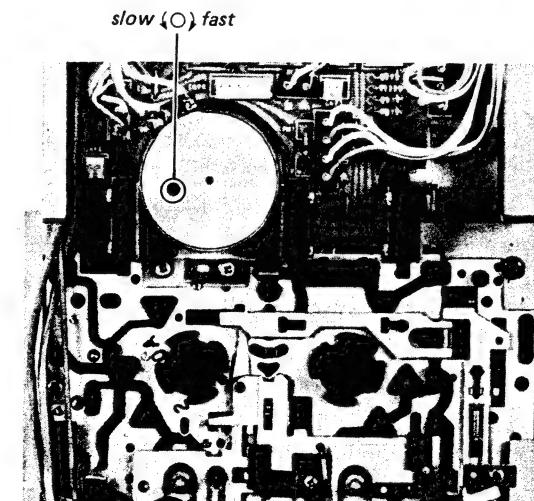
Adjust for both forward (►) direction and reverse (◀) direction.

Specification:

Speed checker	Digital frequency counter
±1%	2,970–3,030 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30 Hz).

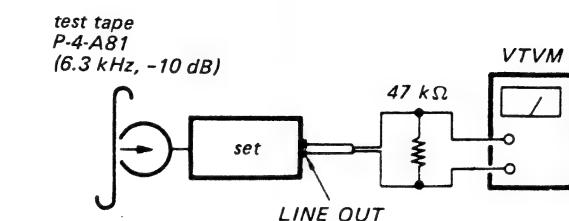
Adjustment Location:



Record/playback Head Azimuth Adjustment

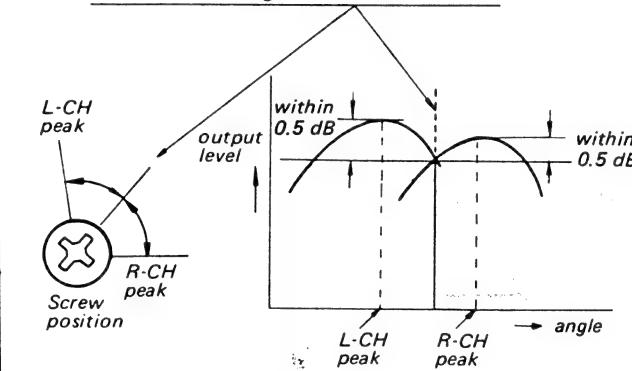
Procedure:

- Mode: playback (FOW/REV)

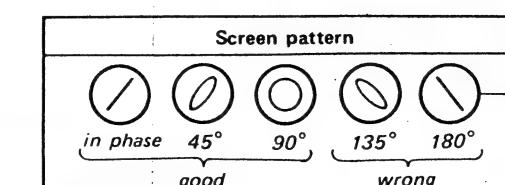
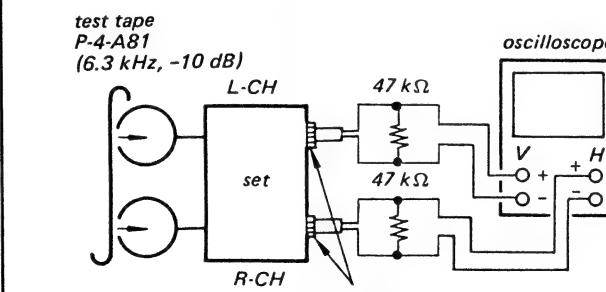


Adjust for forward (►) direction and reverse (◀) direction.

- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 0.5 dB.



- Phase Check
Confirm that phase difference between L-channel and R-channel is within 90°.



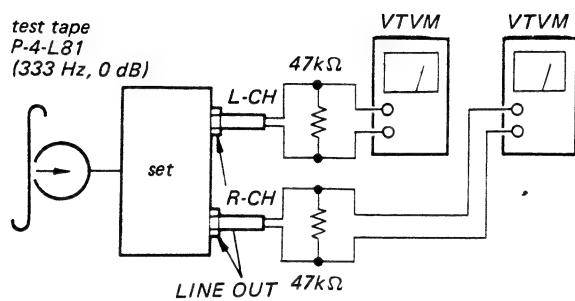
- After the adjustment, lock the screws with locking compound.

Adjustment Location:



Playback Level Adjustment**Procedure:**

Mode: playback



Adjust the RV101 (L-CH) and RV201 (R-CH) so that the specification is met.

Specification:

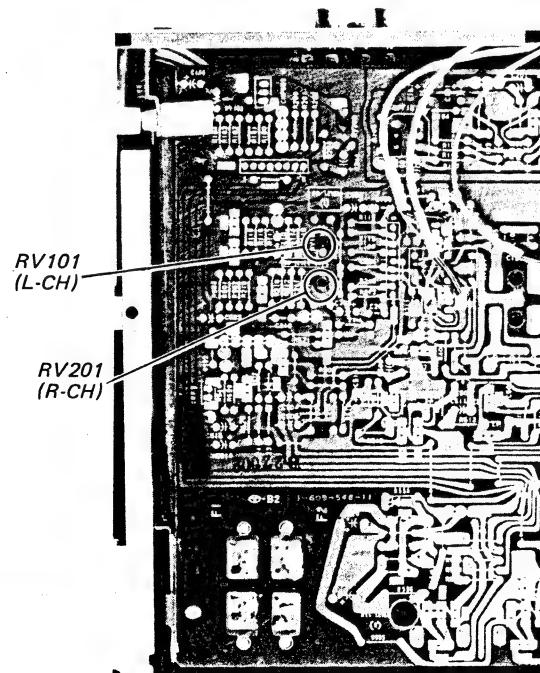
LINE OUT level: 0.52 ~ 0.59 V
(-3.5 ~ -2.5 dB)

Level difference between channels:
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location:

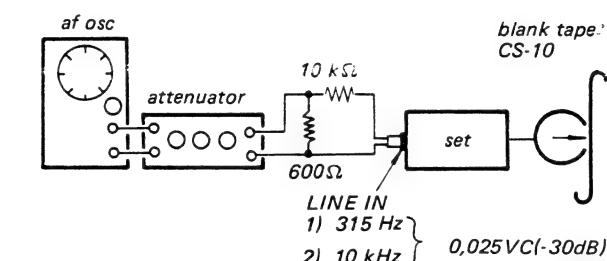
-PLAYBACK BOARD-

**Record Bias Adjustment****Setting:**

TAPE SELECTOR : AUTO
DOLBY NR : OFF
TEST TAPE : CS-10 (Blank tape)
REC LEVEL : STANDARD RECORD
(See page 19)

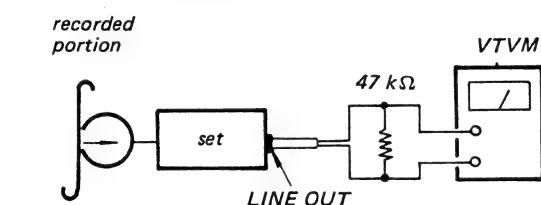
Procedure:

1. Mode: record



Record 315 Hz and 10 kHz Signals.

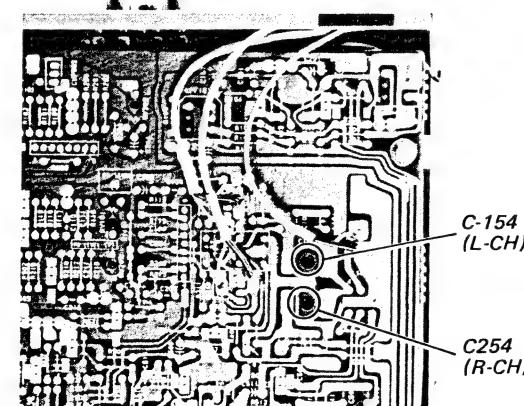
2. Mode: playback



Playback the two signals recorded in Step 1.
Adjust C154 (L-CH) and C254 (R-CH) so that playback output of 10kHz signal is 0dB relative to that of 315 Hz.

Adjustment location:

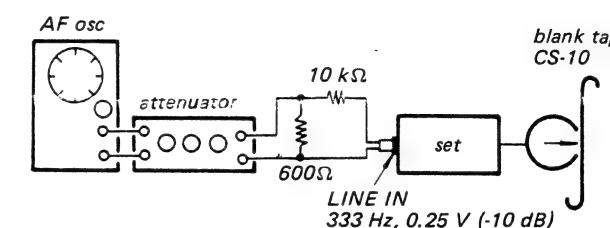
-PLAYBACK BOARD-

**Record Level Adjustment****Setting:**

TAPE SELECTOR : AUTO
DOLBY NR : OFF
TEST TAPE : CS-10 (Blank tape)
REC LEVEL : STANDARD RECORD
(See page 19)

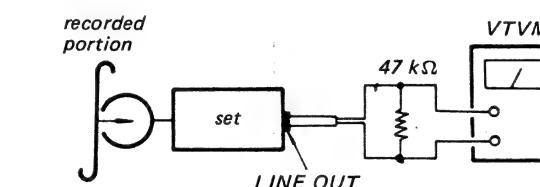
Procedure:

1. Mode: record



Record a 333 Hz signal of 0.25 V (-10 dB).

2. Mode: playback



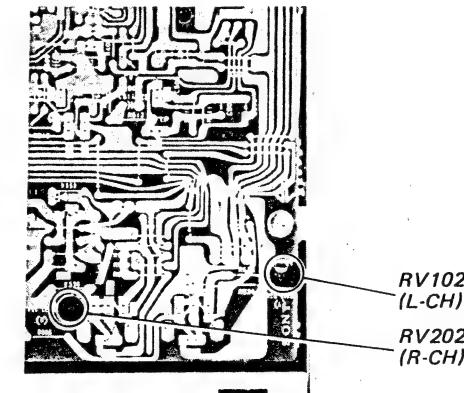
Playback the signal recorded in Step 1.
Adjust RV102 (L-CH) and RV202 (R-CH) for the specification below.

Specification:

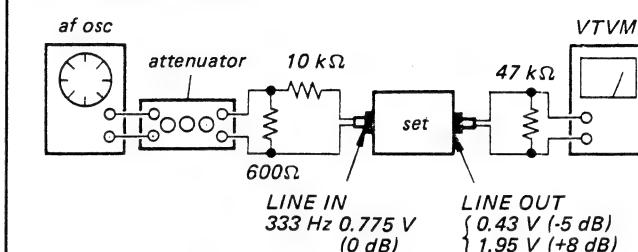
LINE OUT level: 0.41 to 0.46 V
(-5.5 to -4.5 dB)

Adjustment Location:

-RECORD BOARD-

**Level Meter Calibration****Procedure:**

1. Mode: record



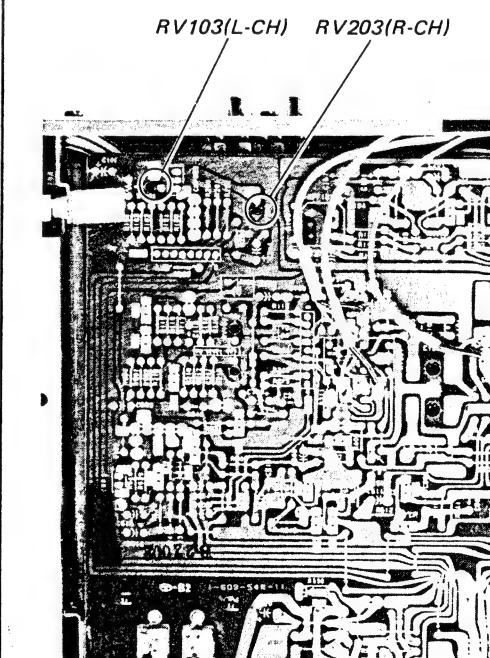
2. Set the REC LEVEL control so that the LINE OUT level is 0.43 V (-5 dB) when a 333 Hz signal of 0.775 V (0 dB) is applied to LINE IN.

3. Adjust RV103 (L-CH), RV203 (R-CH) so that the -5 dB indicating LED in the LED meter goes on.

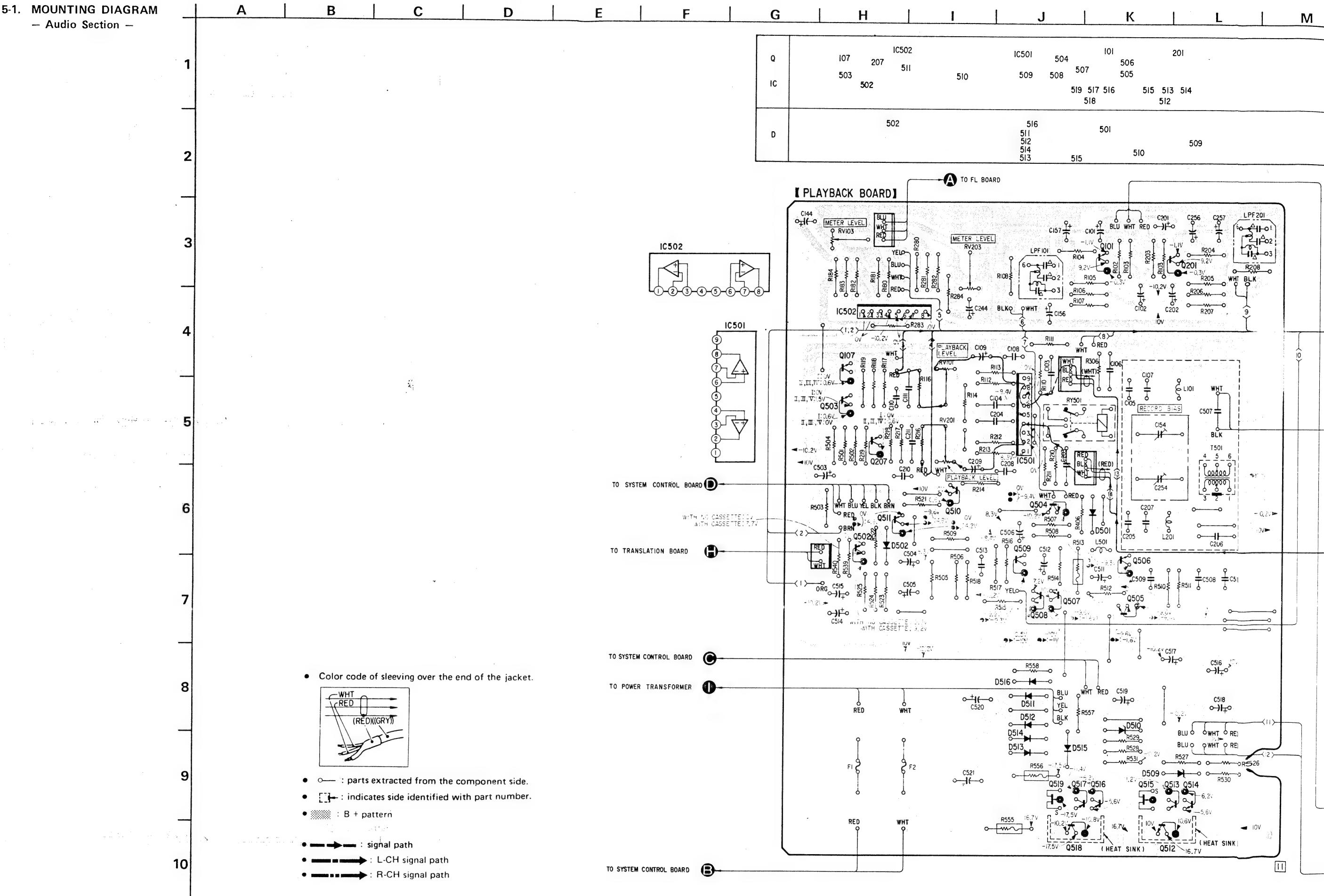
4. Set the REC LEVEL control so that the LINE OUT level is 1.9 V (+8 dB). Make sure that the +8 dB indicating LED in the level meter goes on.

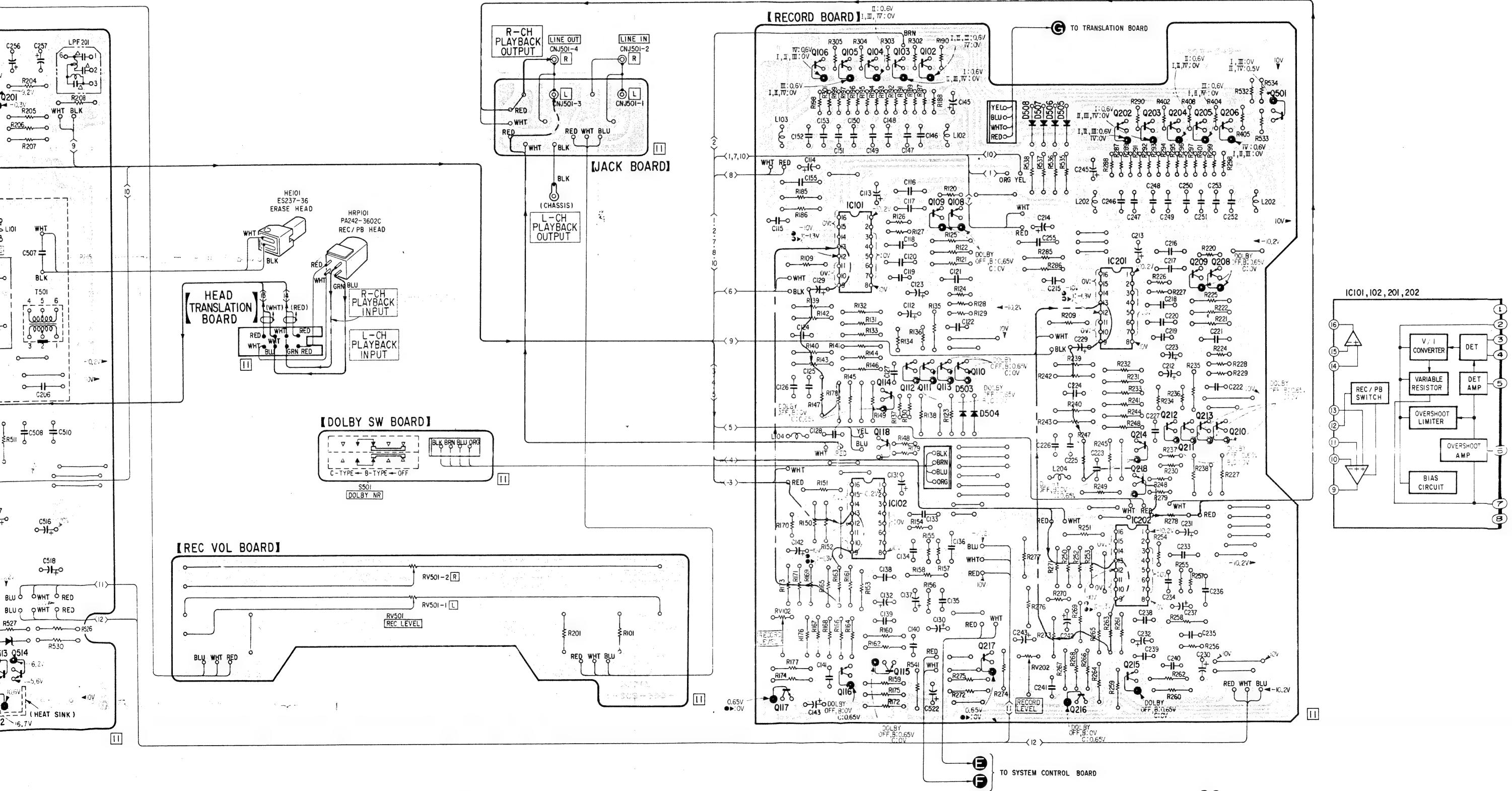
Adjustment Location:

-PLAYBACK BOARD-



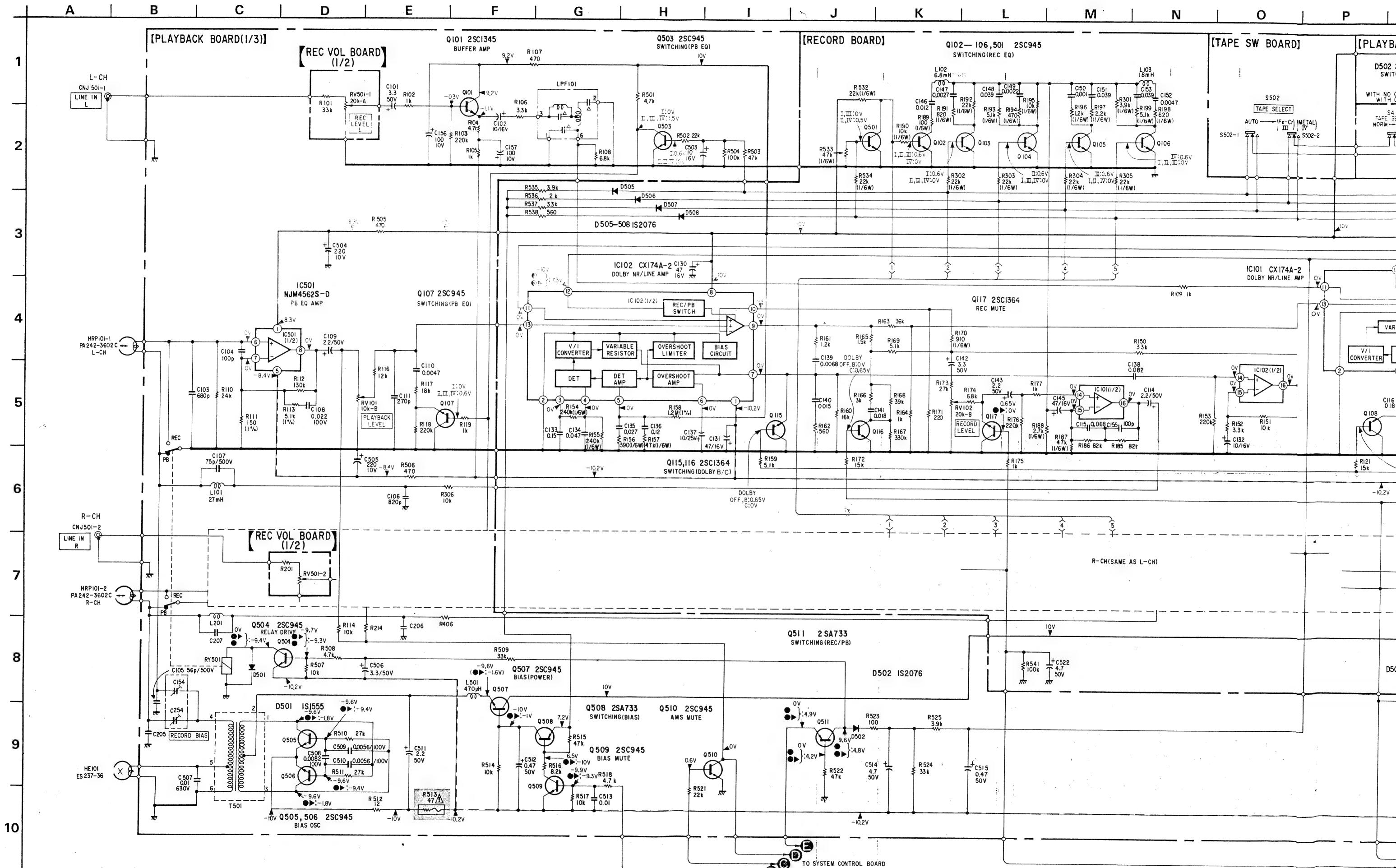
5.1. MOUNTING DIAGRAM
— Audio Section —

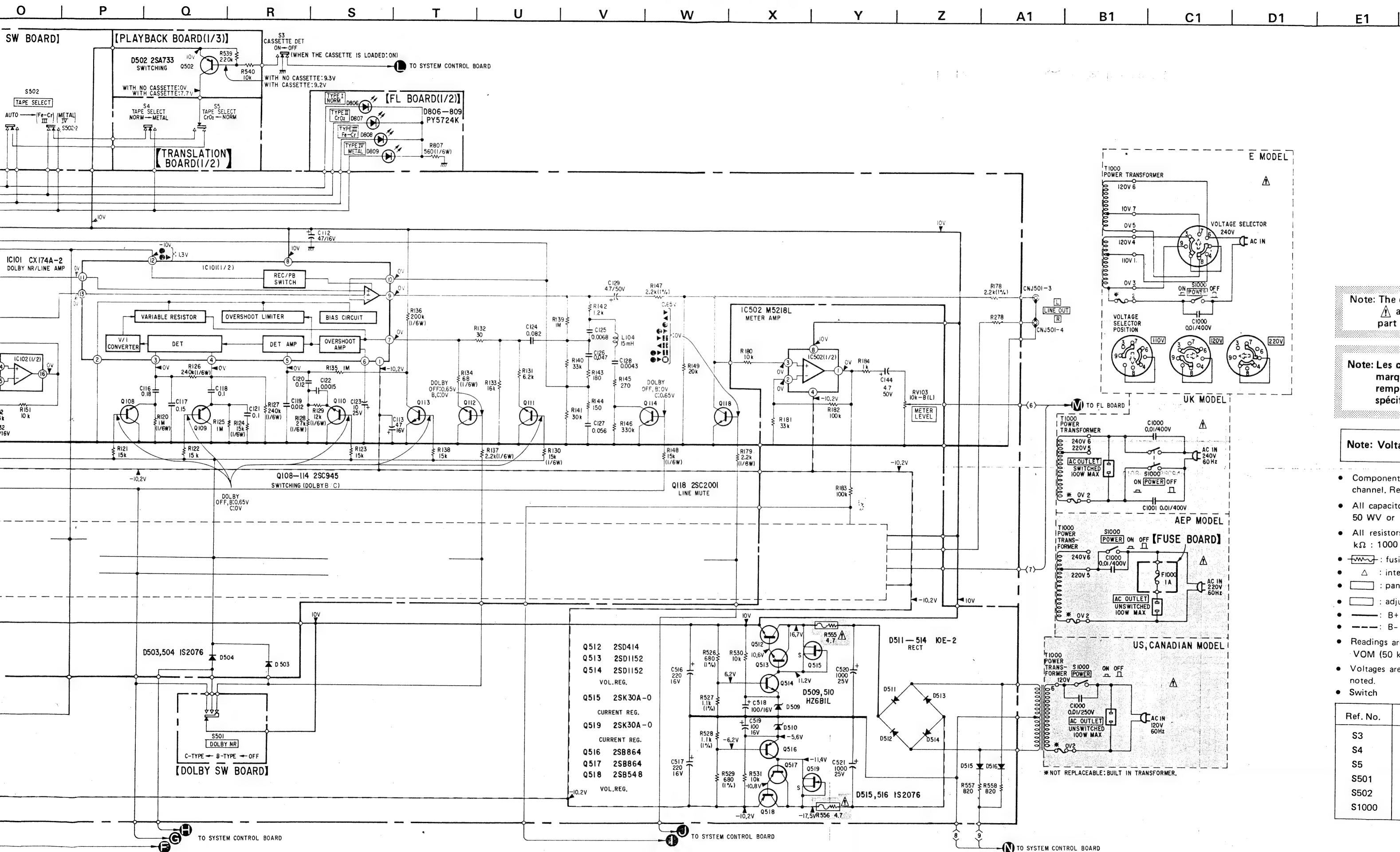


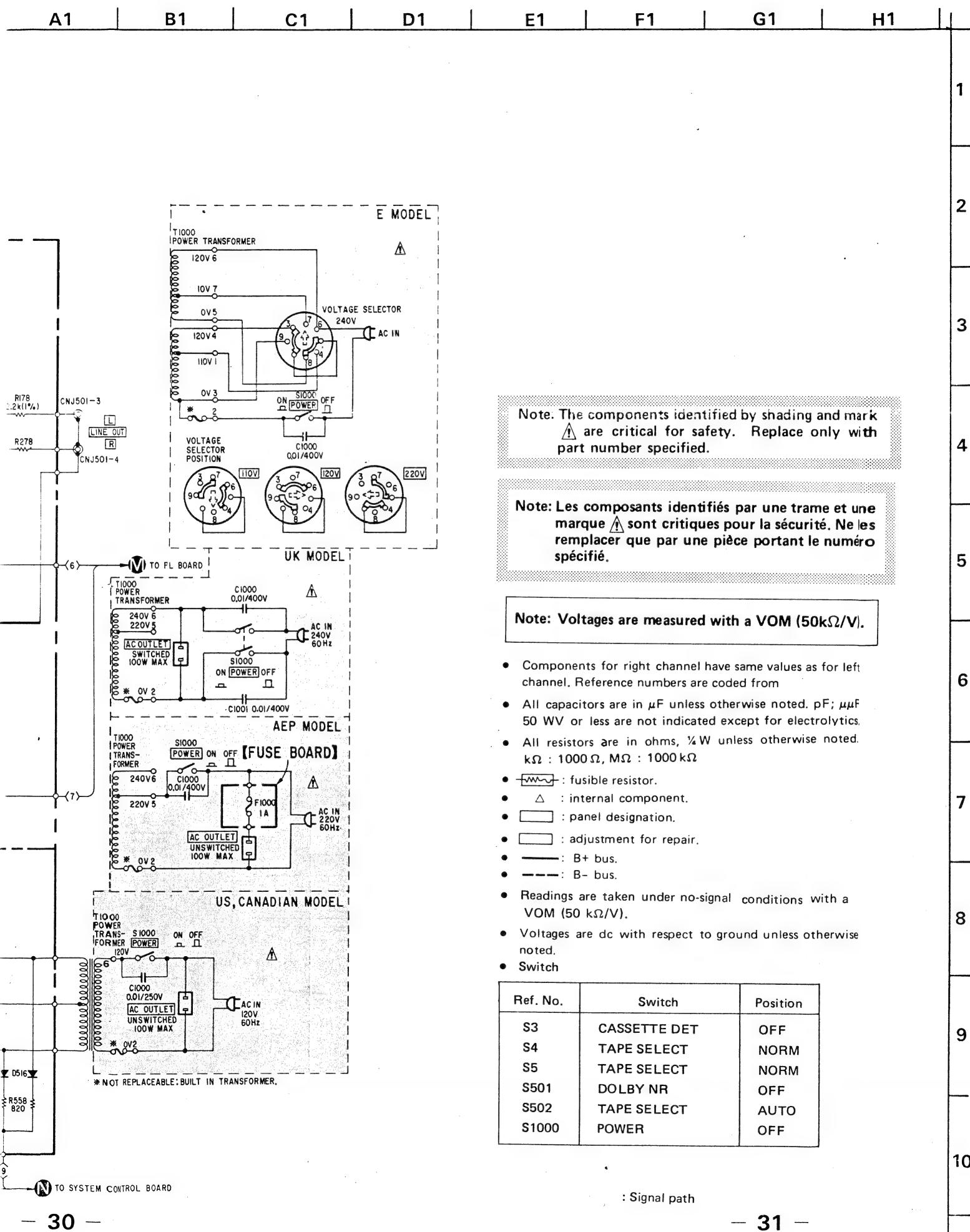


5-2. SCHEMATIC DIAGRAM

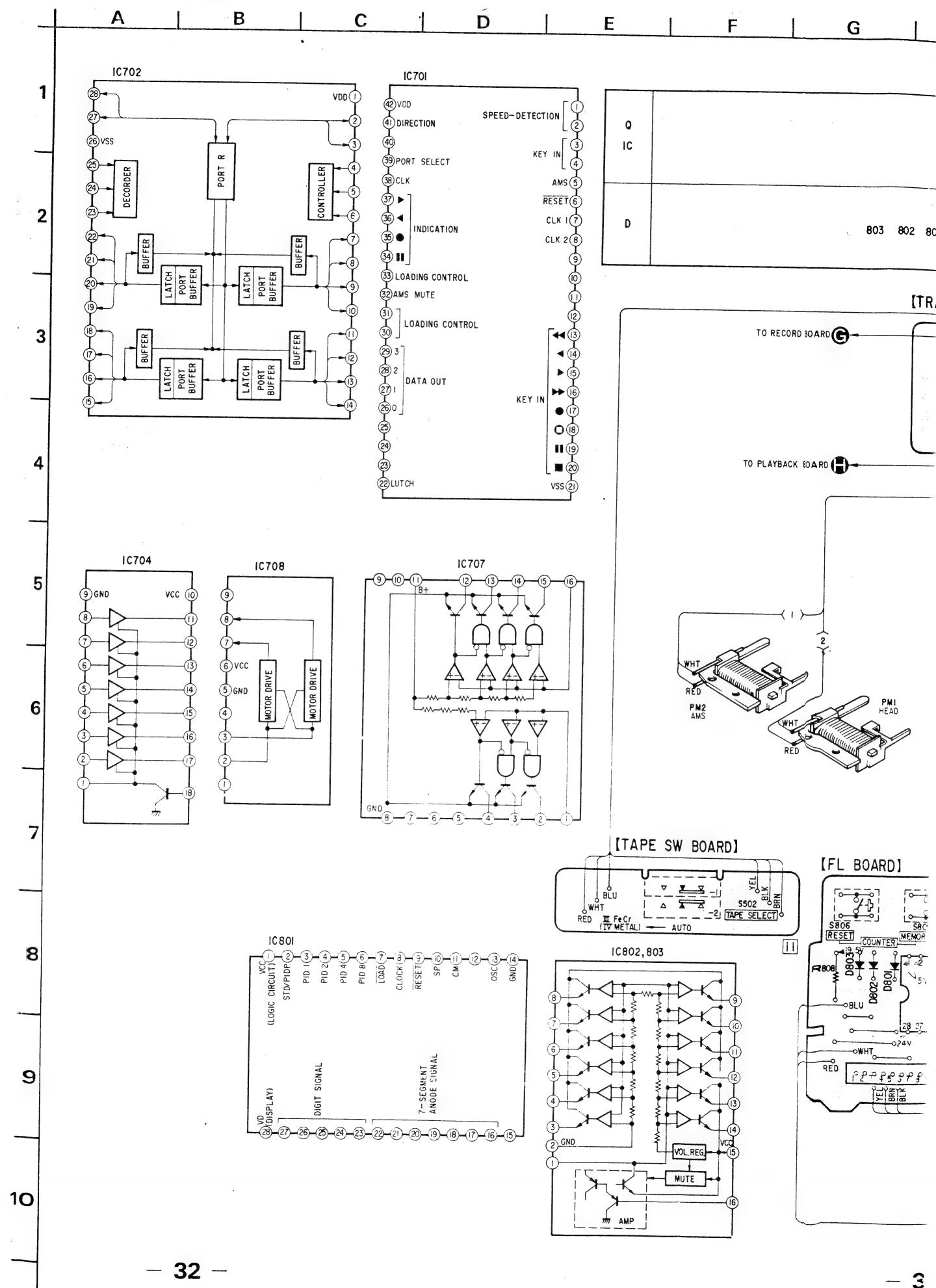
- Audio Section -

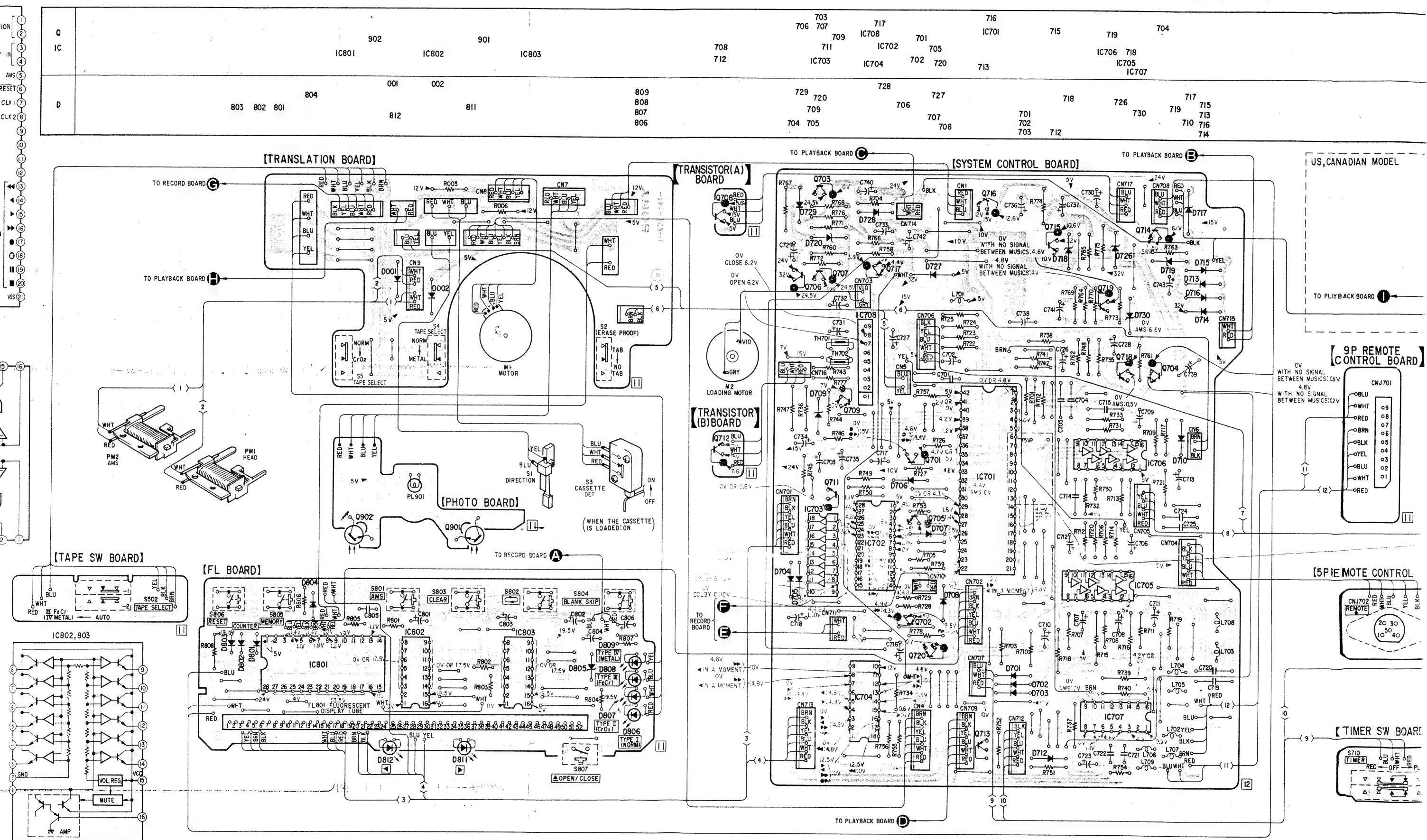




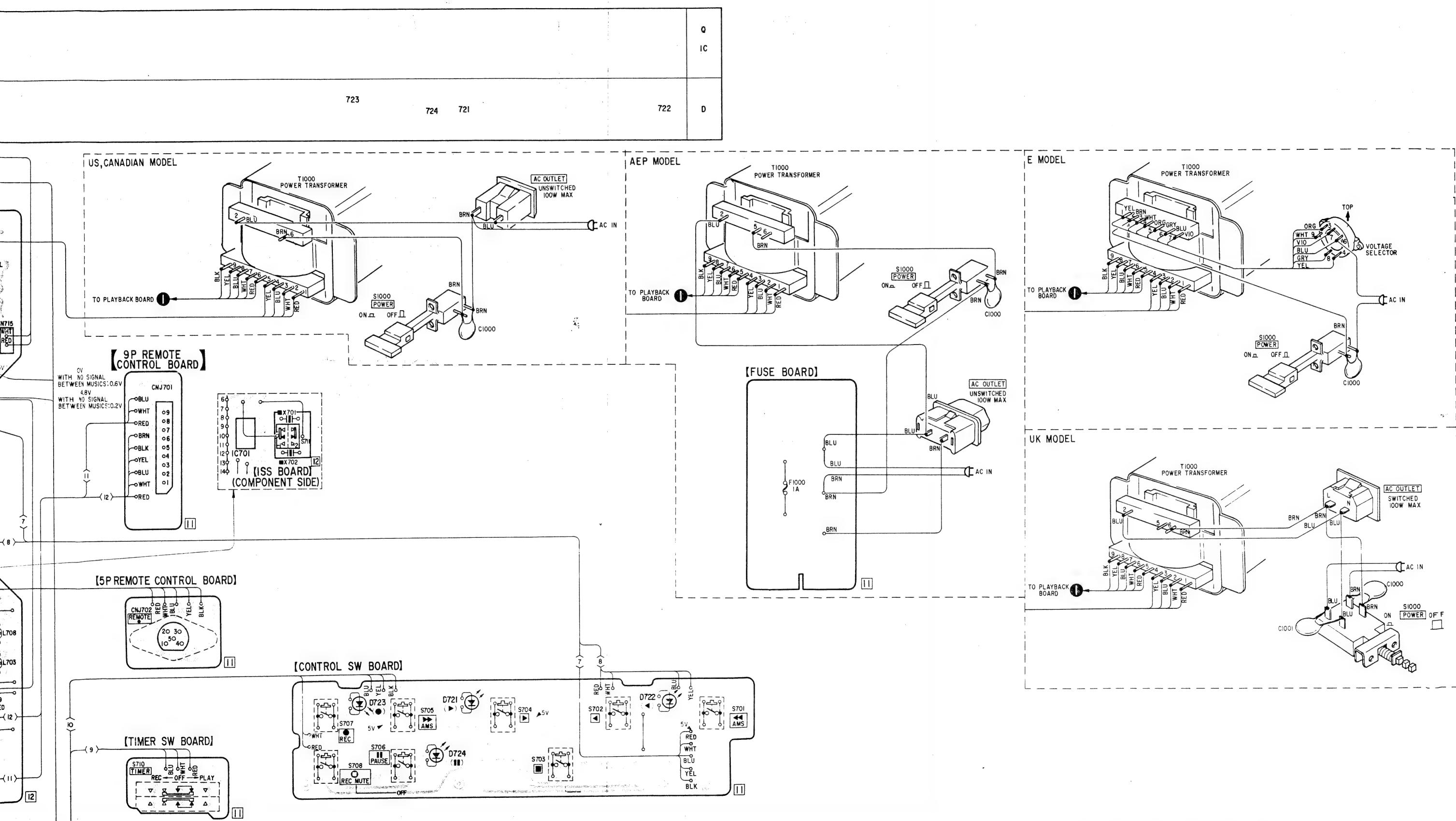


5-3. MOUNTING DIAGRAM
— System Control Section —





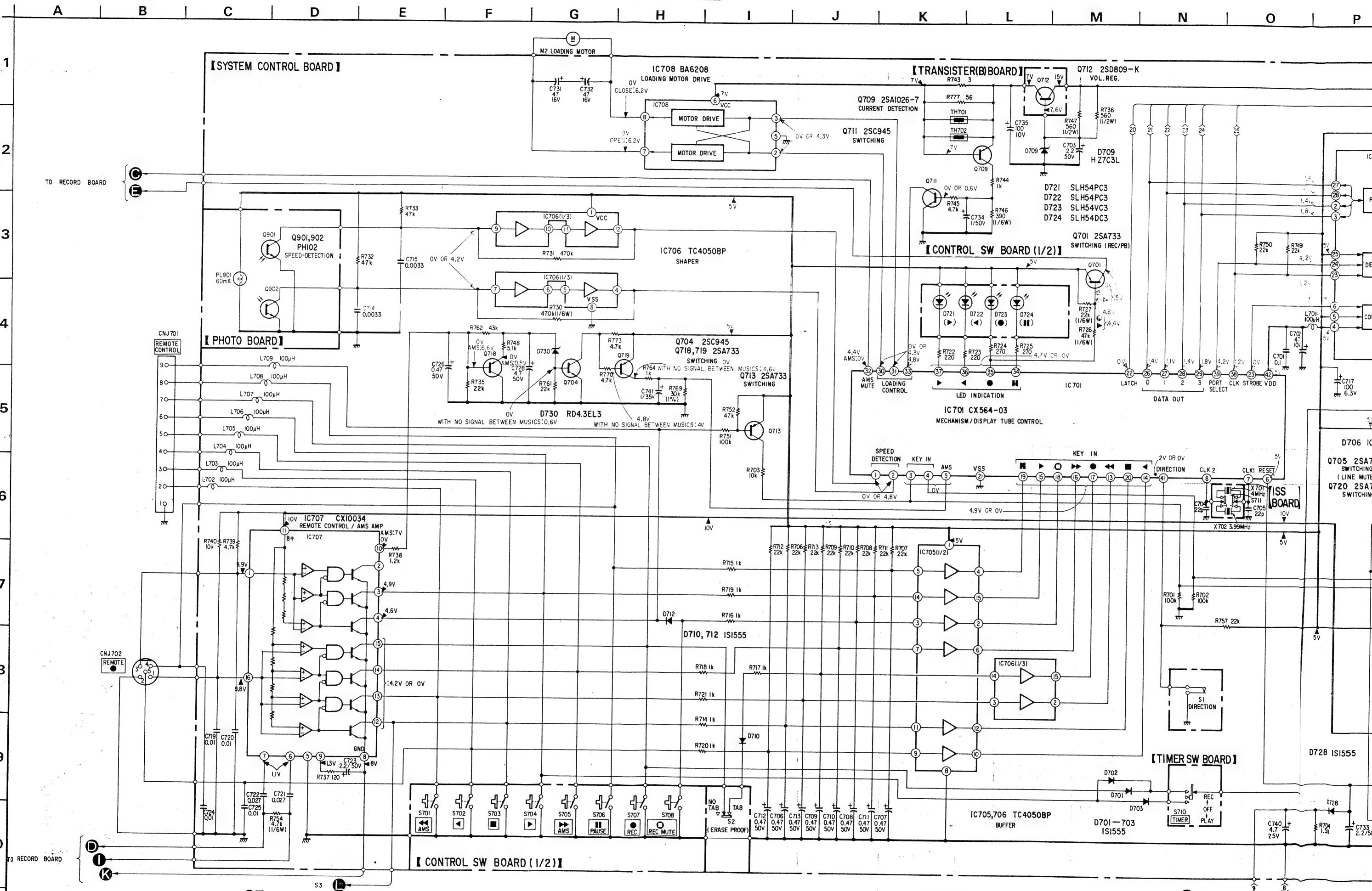
S | T | U | V | W | X | Y | Z | A1 | B1 | C1 | D1 | E1 | F1 | G1 | H1

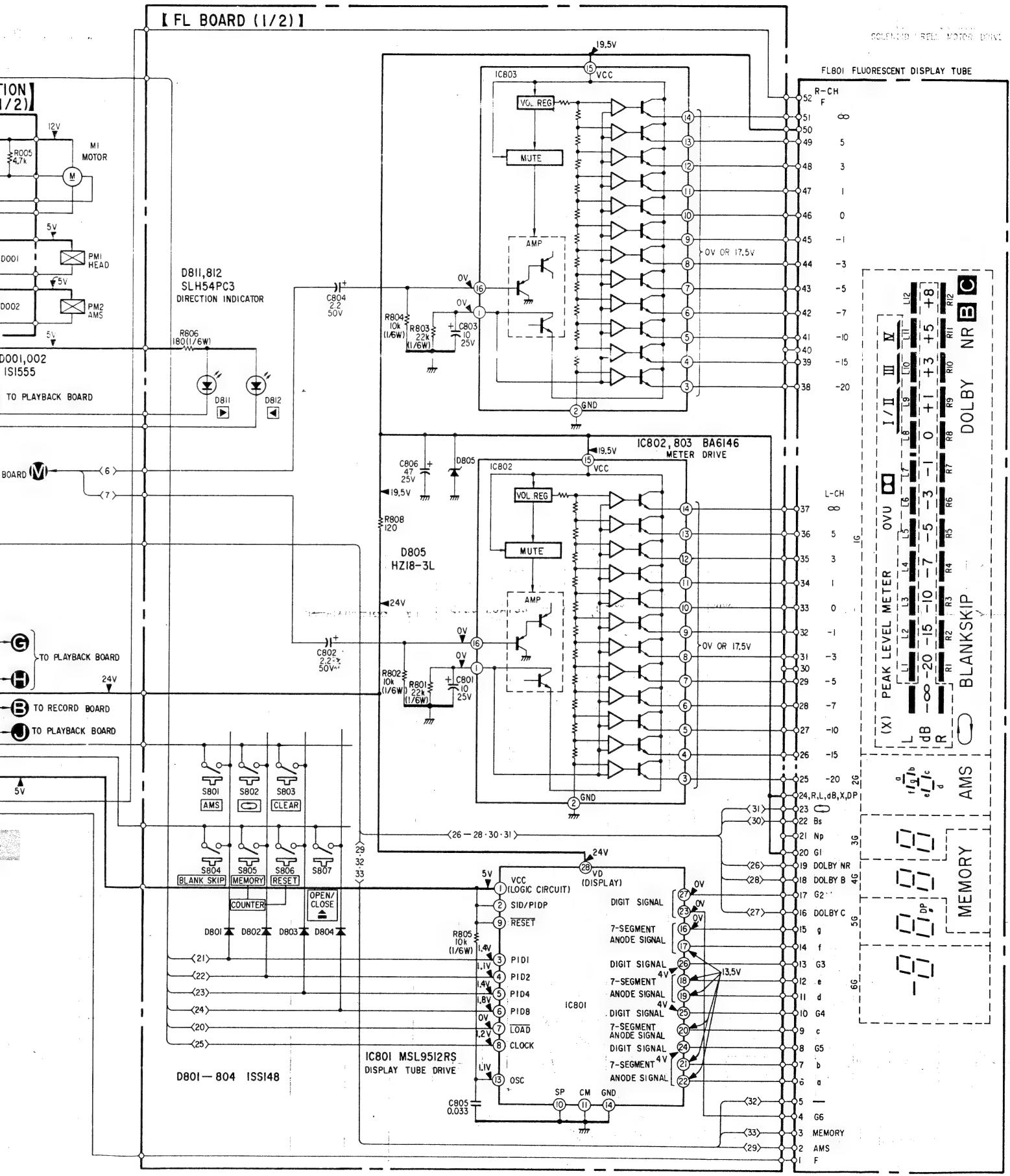
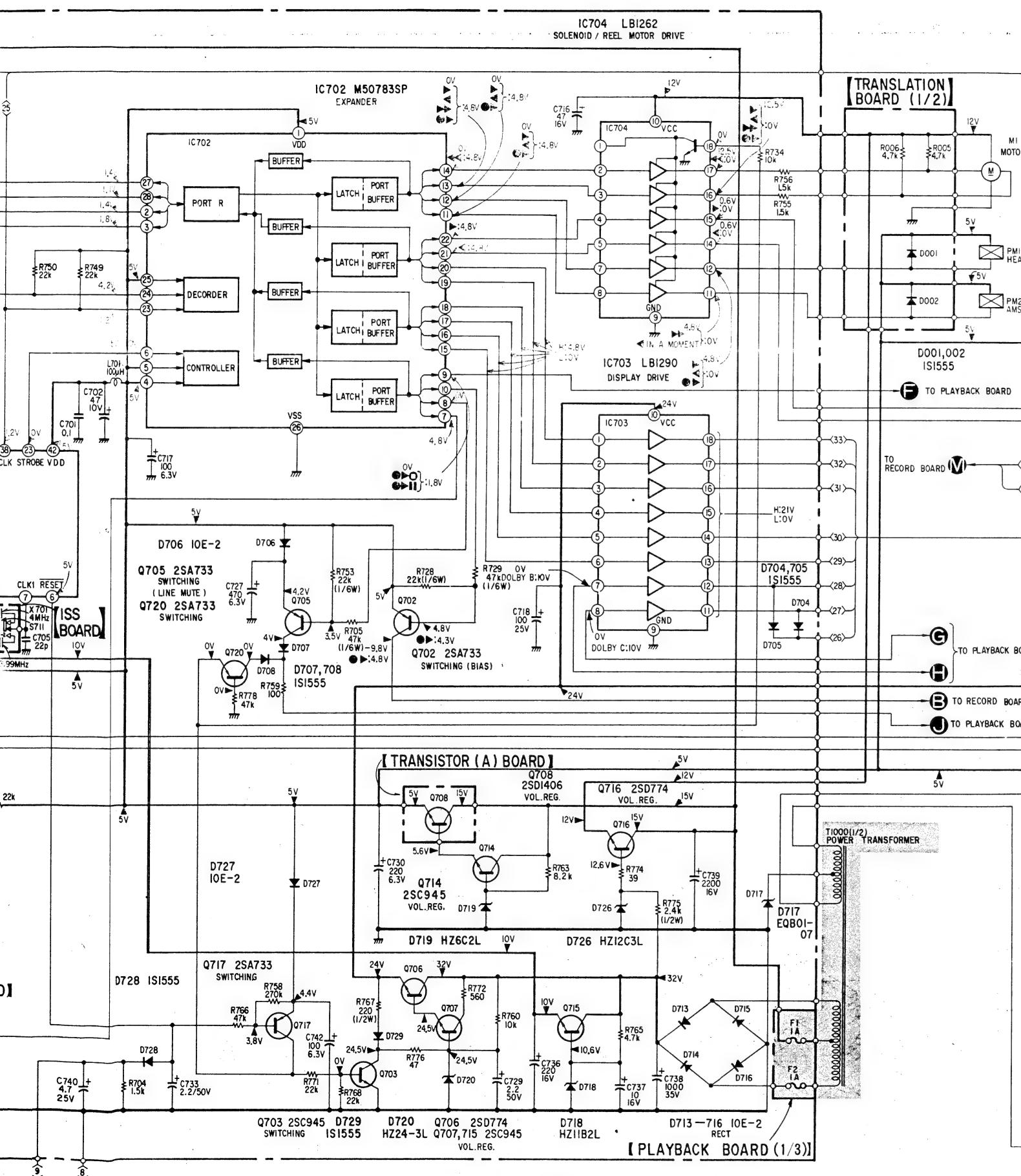


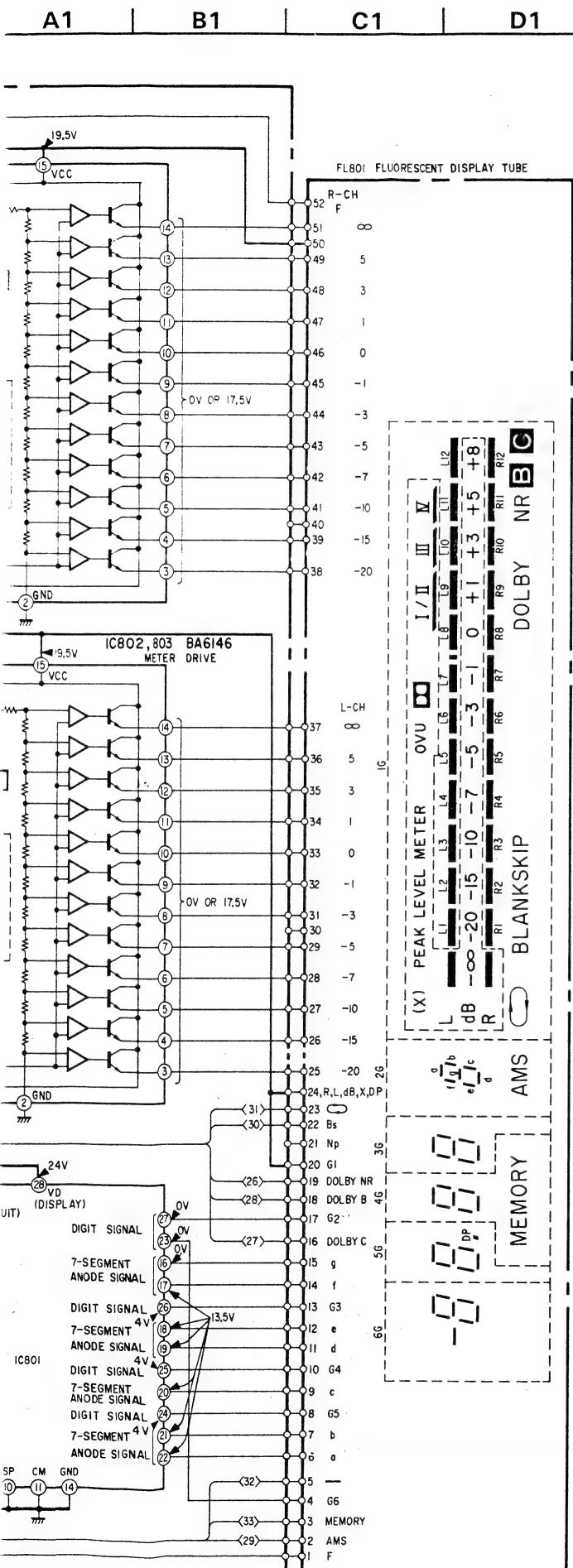
TC-V7 TC-V7

5-4. SCHEMATIC DIAGRAM

— System Control Section —







Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

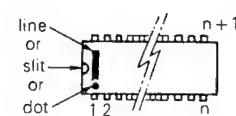
Note: Voltages are measured with a VOM (50k Ω /V).

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{2}\text{W}$ unless otherwise noted.
 $\text{k}\Omega$: 1000Ω , $\text{M}\Omega$: $1000\text{k}\Omega$
- : panel designation.
- : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.
- Switch

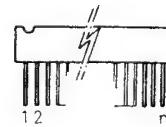
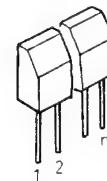
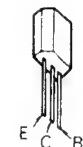
Ref. No.	Switch	Position
S1	DIRECTION	FWD
S2	ERASE PROOF	TAB
S701	(REW)	OFF
S702	(REVERSE)	OFF
S703	(STOP)	OFF
S704	(FWD)	OFF
S705	(F·F)	OFF
S706	(PAUSE)	OFF
S707	(REC)	OFF
S708	(REC MUTE)	OFF
S710	TIMER	OFF
S711	ISS	1
S801	AMS	OFF
S802	(Repeat)	OFF
S803	CLEAR	OFF
S804	BLANK SKIP	OFF
S805	MEMORY	OFF
S806	RESET	OFF
S807	OPEN/CLOSE	OFF

Semiconductor Lead Layouts

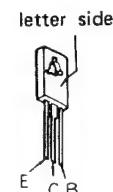
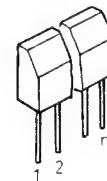
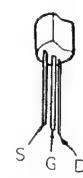
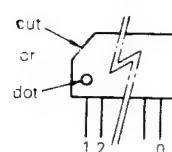
BA6146
CX564-03
CX174A-2
CX10034
LB1262
LB1290
M507835SP
MSL9512RS
TC4050BP



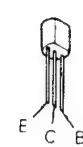
(Top view)

BA6208**M5218L****2SD1406****2SA1026-7**

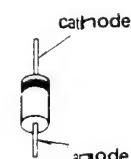
2SB548
2SD414
2SD809K

**2SD1406****2SK30A-0****NJM4562S-D**

2SA844
2SB864
2SC945
2SC2001-K2
2SC1345
2SC1364
2SC1364-8
2SD1152

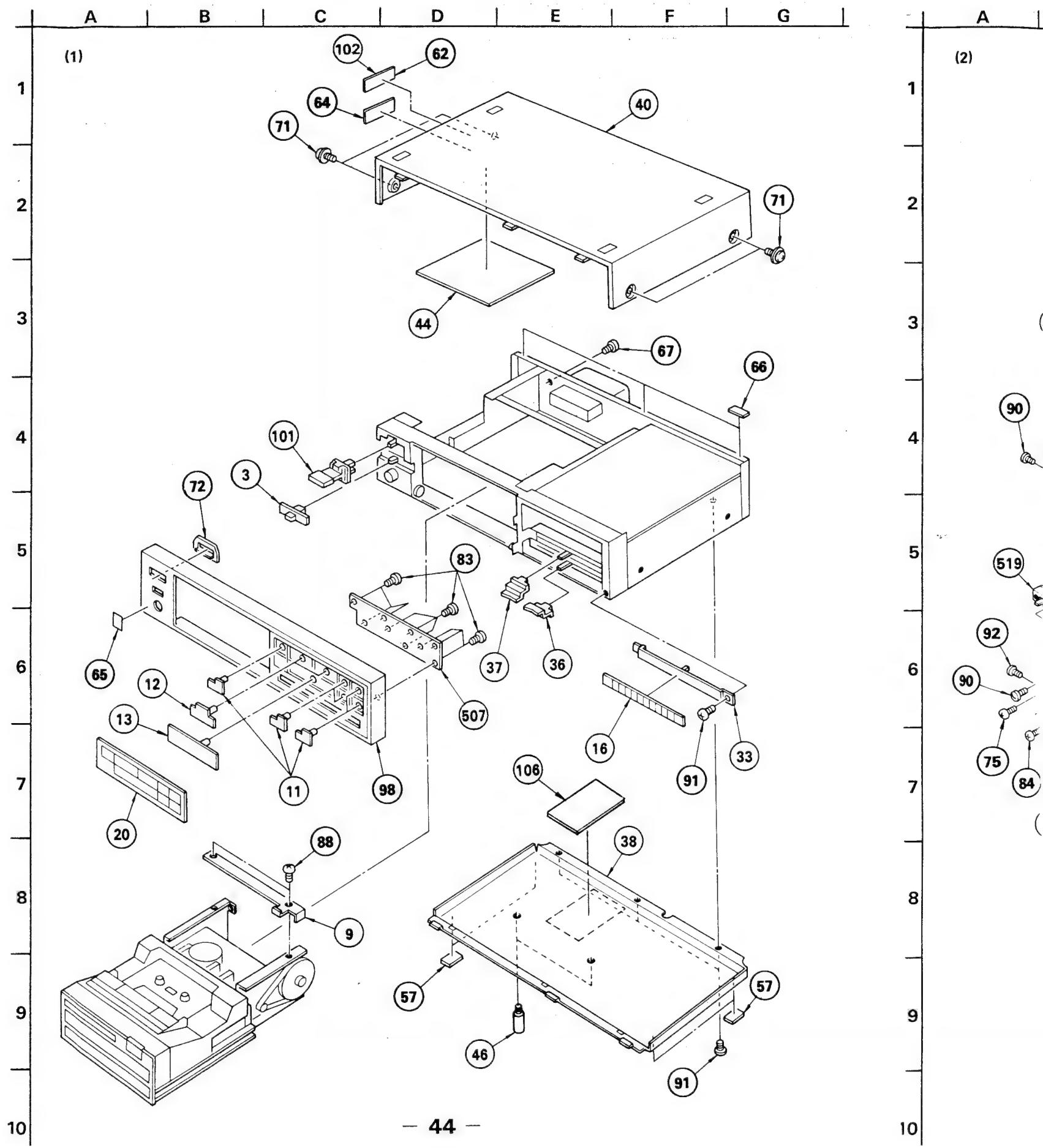
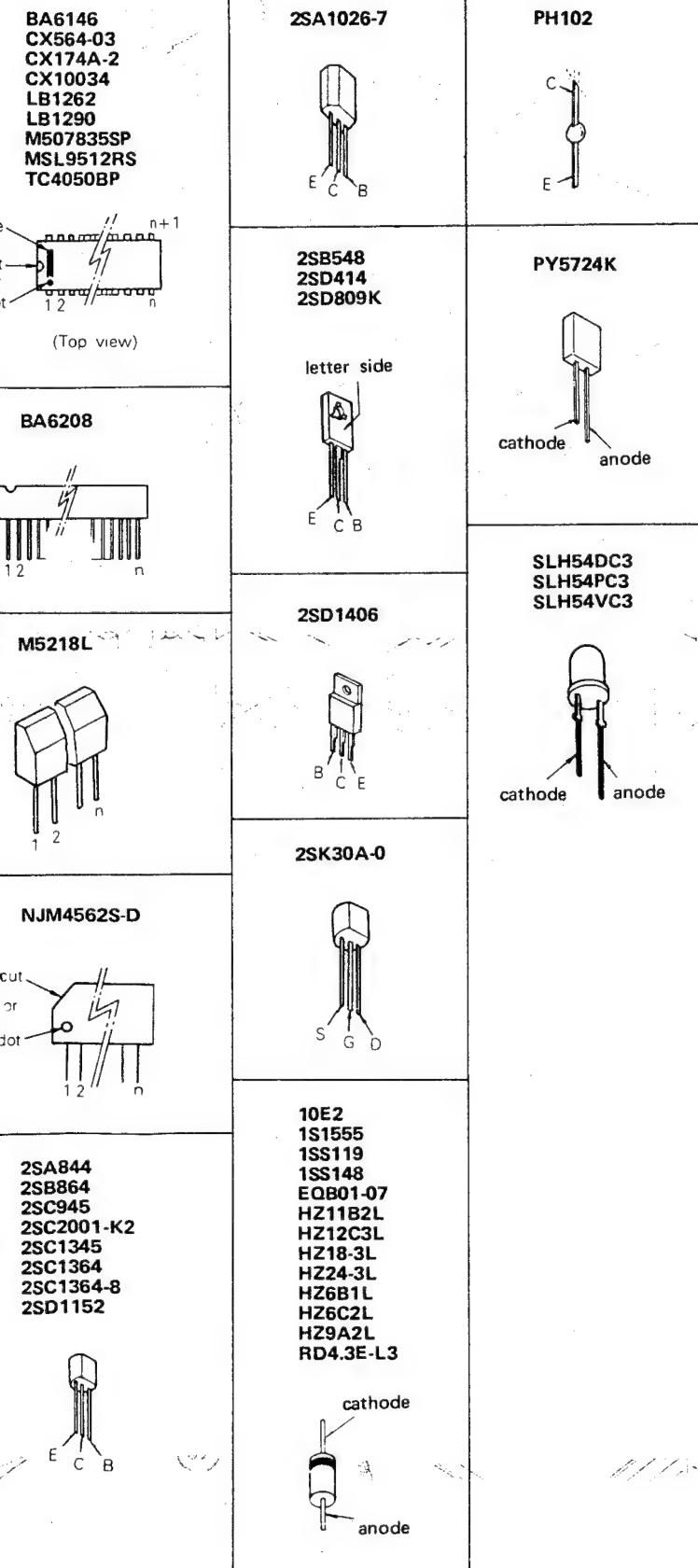


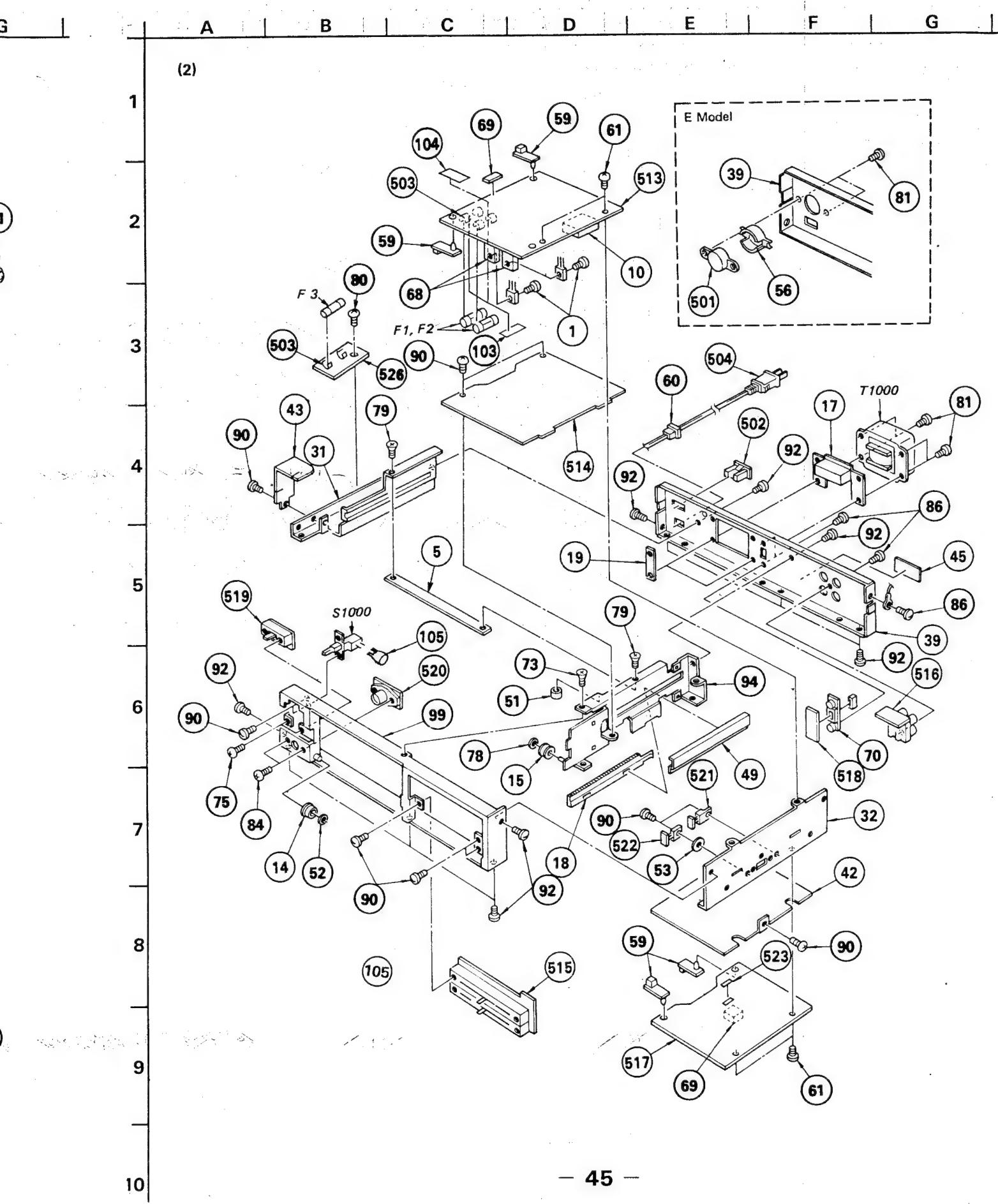
10E2
1S1555
1S1119
1S1148
EQB01-07
HZ11B2L
HZ12C3L
HZ18-3L
HZ24-3L
HZ6B1L
HZ6C2L
HZ9A2L
RD4.3E-L3

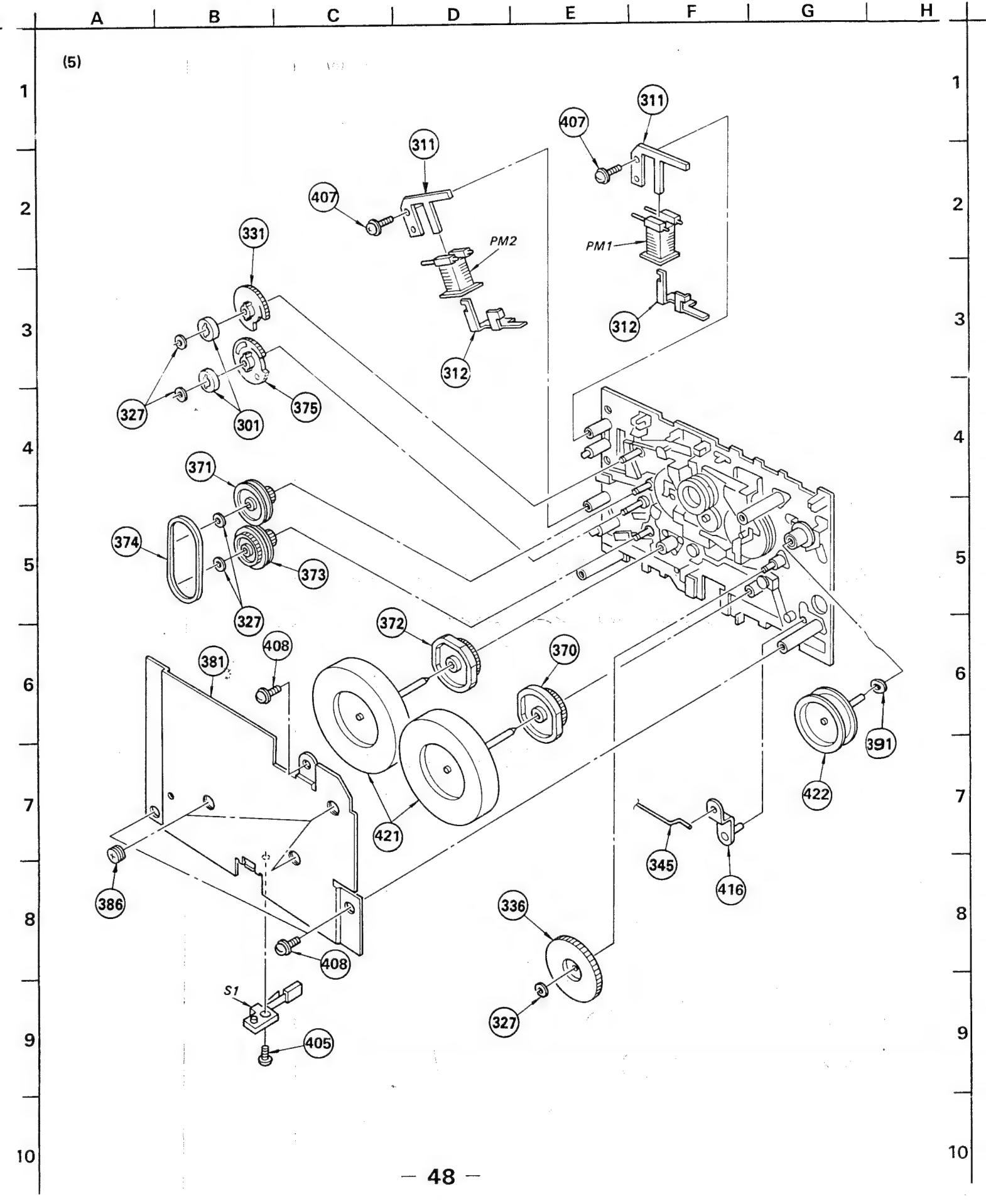
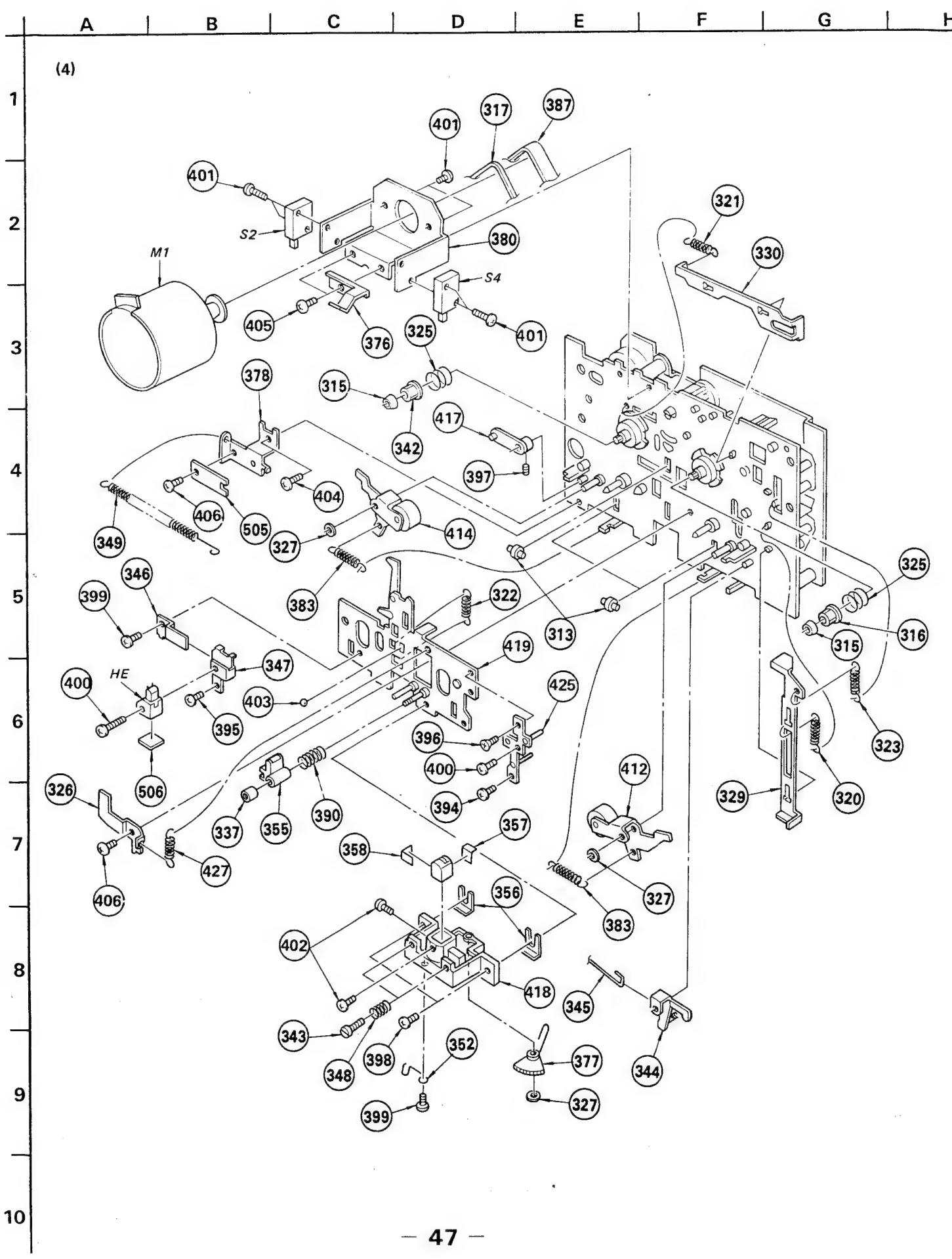


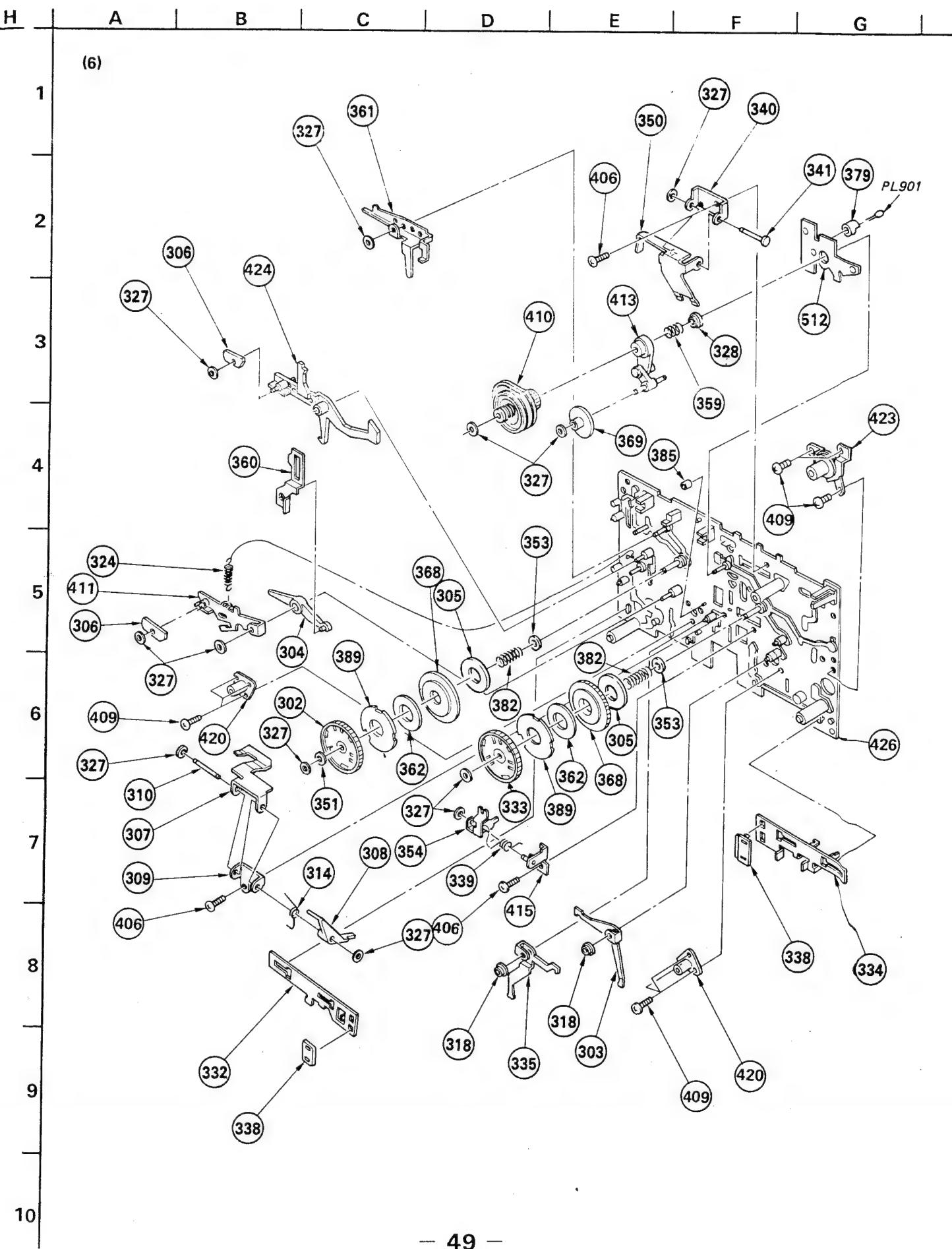
SECTION 6
EXPLODED VIEWS AND PARTS LIST

Semiconductor Lead Layouts









GENERAL SECTION

No.	Part No.	Description
1	2-259-121-00	SCREW, TR
2	3-307-538-31	KNOB, SWITCH, TIMER
3	3-307-538-41	KNOB, SWITCH, TIMER
4	.....
5	3-312-905-00	JOINT (A)
6	3-312-908-00	RETAINER (RIGHT), HALF
7	3-312-909-00	SHAFT, ROLLER
8	3-312-910-00	ROLLER (B)
9	3-312-911-00	JOINT (B)
10	3-312-913-00	PLATE, SHIELD
11	3-312-917-00	BUTTON, PAUSE
12	3-312-918-00	BUTTON, FWD
13	3-312-920-00	BUTTON, STOP
14	3-312-921-00	ROLLER (F.L)
15	3-312-923-00	ROLLER (F.R)
16	3-312-924-00	PLATE, ORNAMENTAL, CONTROL
17	3-312-925-00	SHEET, INSULATING
18	3-312-926-00	RACK
19	3-312-927-00	NUT, PLATE
20	3-312-928-00	SHEET, FUNCTION
21	3-312-929-00	SHEET, DRAWER
22	3-312-930-00	BUTTON, AMS
23	3-312-931-00	BUTTON, MEMORY
24	3-312-932-00	ARM, DETECTION, HALF
25	3-312-933-00	RETAINER (L), HALF
26	3-312-934-00	RAIL (LEFT)
27	3-312-935-00	RAIL (RIGHT)
28	3-312-936-00	GEAR, LOADING
29	3-312-937-00	HOLDER, FL TUBE
30	3-312-941-00	FRAME, DRAWER
31	3-312-942-00	FRAME (A)
32	3-312-943-00	FRAME (C)
33	3-312-945-00	COVER, CONTROL
34	3-312-946-00	BUTTON, DRAWER
35	3-312-947-02	PLATE, BOTTOM, DRAWER
36	3-312-948-00	KNOB (RIGHT), CONTROL
37	3-312-949-00	KNOB (LEFT), CONTROL
38	3-312-950-03	PLATE, BOTTOM
39	3-312-952-12	(US,Canadian)...PLATE, JACK
39	3-312-952-22	(E)...PLATE, JACK
39	3-312-952-32	(AEP)...PLATE, JACK
39	3-312-952-42	(UK)...PLATE, JACK
40	3-312-953-00	CASE
41	.....
42	3-312-963-00	INSULATOR

GENERAL SECTION

No.	Part No.	Description
43	3-312-964-00	INSULATOR, SWITCH
44	3-312-965-00	PLATE, SHIELD, HEAD
45	3-312-966-00	(US,Canadian)...LABEL, MODEL NUMBER
45	3-312-967-00	(E)...LABEL, MODEL NUMBER
45	3-312-969-00	(UK)...LABEL, MODEL NUMBER
45	3-312-971-00	(AEP)...LABEL, MODEL NUMBER
46	3-312-974-00	SCREW, TRANSPORT
47	.....
48	.....
49	3-312-977-00	COVER, ROLLER
50	3-312-978-00	SHEET, RUBBER
51	3-537-790-11	SUPPORT, TENSION ARM
52	3-558-708-21	WASHER, STOPPER
53	3-572-365-01	SHEET (A), INSULATING
54	3-573-911-21	BELT, FLAT
55	3-575-457-00	PLATE (B), SHIELD, MOTOR
56	3-575-567-00	(E)...COVER, SWITCH
57	3-576-332-11	FOOT, F
58	3-701-505-00	SET SCREW, DOUBLE POINT 3X3
59	3-701-832-00	HINGE, CIRCUIT BOARD
60	3-703-244-00	BUSHING, CORD
61	3-703-486-00	+PTTWH 3X5
62	3-703-678-00	(US)...LABEL, CAUTION, NEW UL
64	3-703-680-00	(US)...LABEL, CAUTION, SUB, NEW UL
65	3-703-713-01	STICKER, SONY SYMBOL (10)
66	3-831-441-11	CUSHION, 23X4X0.5
67	4-808-459-81	SCREW (B), MOTOR LOCK
68	4-861-002-11	HEAT SINK
69	4-862-348-00	CUSHION
70	4-864-313-00	WASHER (9P), CONNECTOR
71	4-886-821-11	SCREW, M3 CASE
72	4-886-976-00	ESCUTCHEON, POWER KNOB
73	7-621-559-20	SCREW +K 2.6X4
74	7-621-775-00	SCREW +B 2.6X3
75	7-621-775-20	SCREW +B 2.6X5
76	7-621-775-40	SCREW +B 2.6X8
77	7-623-911-01	WASHER, NYLONE
78	7-624-102-04	STOP RING 1.5, TYPE -E
79	7-627-452-18	SCREW, PRECISION +K 2X3
80	7-682-546-04	SCREW +BVIT 3X5 (S)
81	7-682-547-09	SCREW +B 3X6
82	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT
83	7-685-145-11	SCREW +P 3X6 TYPE2 NON-SLIT
84	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.

MF: μ F, PF: μ UF.

RESISTORS:

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

- MMH : mH, UH : μ H

GENERAL SECTION			MECHANISM SECTION			MECHANISM SECTION			MECHANISM SECTION		
No.	Part No.	Description	No.	Part No.	Description	No.	Part No.	Description	No.	Part No.	Description
85	7-685-534-24	SCREW +P 2.6X8 TYPE2 NON-SLIT	301	1-452-202-00	MAGNET	346	3-307-457-00	SPRING	385	3-538-051-00	RUBBER, BRAKE
86	7-685-545-19	SCREW +BTP 3X6 TYPE2 N-S	302	3-307-305-02	GEAR (T), REEL	347	3-307-458-00	PLATE (L), ADJUSTMENT, HEAD	386	3-555-169-00	SCREW, ADJUSTMENT
87	7-685-751-09	SCREW, TOTSU BTT 3X6	303	3-307-306-00	LEVER, SELECT, REVERSE	348	3-307-460-00	SPRING, COMPRESSION	387	3-558-349-00	BELT, CAPSTAN
88	7-685-860-04	SCREW +BVTT 2.6X4 (S)	304	3-307-307-00	LEVER, FWD	349	3-307-461-00	SPRING, TENSION	389	3-561-827-11	PLATE (A), HYSTERESIS
89	7-685-861-01	SCREW +BVTT 2.6X5 (S)	305	3-307-313-00	PLATE, YOKE	350	3-307-464-00	RETAINER, SUPPLY GEAR	390	3-644-718-00	SPRING, COMPRESSION
90	7-685-870-01	SCREW +BVTT 3X5 (S)	306	3-307-315-00	ARBOR, MOVABLE	351	3-307-465-00	RETAINER, TAKE-UP	391	3-701-438-11	WASHER, 2.5
91	7-685-871-01	SCREW +BVTT 3X6 (S)	307	3-307-319-00	RETAINER, TAKE-UP GEAR	352	3-307-466-00	CLAMP	392	.....	.....
92	7-687-711-39	SCREW, TOTSU BTT 3X5	308	3-307-328-00	LEVER, TAKE-UP SELECTION	353	3-307-467-00	RETAINER, SPRING	393	.....	.....
93	X-3312-902-0	PLATE ASSY, ORNAMENTAL, MD	309	3-307-329-00	PLATE, FULCRUM, SELECTION LEVER	354	3-307-469-00	LEVER, SELECTION, SUPPLY	394	3-701-467-00	SCREW, LOCK
94	●;X-3312-904-0	FRAME (B) ASSY	310	3-307-330-00	PIN, FULCRUM PLATE	355	3-307-470-00	GUIDE (L), TAPE	395	7-621-255-00	SCREW +P 2X4
95	●;X-3312-905-0	PLATE (LEFT) ASSY, SIDE, MD	311	3-307-332-00	ARBOR, FIXED	356	3-307-477-41	SEAM (A), HEAD ADJUSTMENT (t=0.05)	396	7-621-555-30	SCREW +K 2X5
96	●;X-3312-906-0	PLATE (RIGHT) ASSY, SIDE, MD	312	3-307-333-00	ARBOR, TRIGGER	356	3-307-477-01	SEAM (A), HEAD ADJUSTMENT (t=0.1)	397	7-621-731-08	SET SCREW 2X2.5
97	X-3312-907-0	PANEL ASSY, DRAWER	313	3-307-348-00	ROLLER	356	3-307-477-11	SEAM (A), HEAD ADJUSTMENT (t=0.2)	398	7-621-770-87	SCREW +P 2.6X5
98	X-3312-908-0	PANEL ASSY, FRONT	314	3-307-355-00	SPRING	356	3-307-477-21	SEAM (A), HEAD ADJUSTMENT (t=0.3)	399	7-621-772-00	SCREW +B 2X3
99	●;X-3312-909-0	CHASSIS ASSY, AMPLIFIER	315	3-307-362-00	CAP, REEL	356	3-307-477-31	SEAM (A), HEAD ADJUSTMENT (t=0.4)	400	7-621-772-40	SCREW +B 2X8
100	X-3312-910-0	COVER ASSY, MD	316	3-307-363-00	CLAW (N), REEL	357	3-307-480-00	SEAM (B), HEAD ADJUSTMENT (t=0.05)	401	7-621-775-40	SCREW +B 2.6X8
101	X-4886-805-0	KNOB (L) ASSY, POWER	317	3-307-366-00	BELT, FAST FORWARD	357	3-307-479-01	SEAM (B), HEAD ADJUSTMENT (t=0.1)	402	7-627-552-07	SCREW, PRECISION +P 1.7X2.5
102	3-703-043-31	(Canadian).....LABEL, CAUTION	318	3-307-367-00	BUSHING, SELECT LEVER	357	3-307-479-11	SEAM (B), HEAD ADJUSTMENT (t=0.2)	403	7-671-111-11	STEEL BALL 1.5MM
103	●; 3-701-946-30	(US).....LABEL, FUSE	319	.....		357	3-307-479-21	SEAM (B), HEAD ADJUSTMENT (t=0.3)	404	7-685-750-01	SCREW +PTT 3X5 (S)
103	●; 3-701-948-14	(AEP, UK, E1, E2).....LABEL, CAUTION	320	3-307-373-00	SPRING, TENSION	357	3-307-479-31	SEAM (B), HEAD ADJUSTMENT (t=0.4)	405	7-685-790-01	SCREW +PTT 2.6X4 (S)
104	3-703-044-26	(Canadian).....LABEL, CAUTION	321	3-307-374-00	SPRING, TENSION	358	3-307-481-00	BASE, HEAD	406	7-685-860-04	SCREW +BVTT 2.6X4 (S)
105	4-875-455-21	COVER, CAPACITOR	322	3-307-375-00	SPRING, TENSION	359	3-307-486-00	SPRING, COMPRESSION	407	7-687-204-21	TOTSU PTPWH 2X6 NON-SLIT, TYPE2
106	9-911-837-XX	SHEET, VIBRATION PROOF	323	3-307-377-00	SPRING, TENSION	360	3-307-487-00	STOPPER, FR	408	7-687-246-21	SCREW, TOTSU PTPWH 3X8, TYPE2
			324	3-307-378-00	SPRING, TENSION	361	●;3-307-490-00	LEVER, FF	409	7-687-701-39	SCREW, TOTSU BTT 2.6X4
			325	3-307-380-00	SPRING, COMPRESSION	362	3-307-493-21	SPACER	410	A-2142-022-A	PULLEY ASSY, FR
			326	3-307-391-00	SPRING	362	3-307-493-31	SPACER	411	●;X-3307-305-0	LEVER ASSY, FWD LOCK
			327	3-307-394-00	RETAINER (B), THRUST	362	3-307-493-41	SPACER	412	X-3307-307-6	PINCH ROLLER (N) ASSY
			328	3-307-395-00	RETAINER, SPRING	362	3-307-493-51	SPACER	413	X-3307-312-0	LEVER ASSY, FR
			329	3-307-397-00	SLIDER, PAUSE	368	3-307-953-00	MAGNET, REEL TABLE	414	X-3307-316-3	PINCH ROLLER (R) ASSY
			330	●;3-307-399-00	SLIDER, MODE	369	3-307-970-00	GEAR, FR	415	●;X-3307-317-0	PLATE ASSY, FULCRUM, LEVER
			331	3-307-401-00	GEAR, FF CAM	370	●;3-312-403-00	GEAR (S), PINION	416	●;X-3307-319-0	ARM (A) ASSY, PAUSE
			332	●;3-307-403-00	SLIDER, FWD	371	3-312-405-00	PULLEY, DRIVING	417	3-312-428-00	ARM (B) PAUSE
			333	3-307-412-00	GEAR, TAKE-UP REEL	372	3-312-406-00	GEAR (T), PINION	418	X-3307-321-0	HOLDER ASSY, HEAD
			334	●;3-307-420-00	SLIDER, REVERSE	373	3-312-408-00	GEAR (B), CONVERSION	419	X-3307-323-0	CHASSIS (R) ASSY, HEAD
			335	●;3-307-421-00	LEVER (R), FWD SELECTION	374	3-312-409-00	BELT, DRIVING	420	X-3307-338-0	BEARING ASSY, CAPSTAN
			336	3-307-423-00	GEAR (S), DRIVING	375	3-312-412-00	GEAR (B), CAM, FWD	421	X-3307-339-0	FLYWHEEL (H) ASSY
			337	3-307-435-00	NUT, ADJUSTMENT, TAPE GUIDE	376	●;3-312-414-00	RETAINER (B), HALF	422	X-3307-341-2	PULLEY ASSY, DUMMY
			338	●;3-307-437-00	BLOCK, HEAD SELECTION	377	3-312-415-00	GEAR, ROTARY HEAD	423	X-3307-342-0	BEARING ASSY, DUMMY PULLEY
			339	3-307-441-00	SPRING	378	●;3-312-417-00	HOLDER, PC BOARD, HEAD	424	X-3307-348-0	LEVER ASSY, FF LOCK
			340	●;3-307-443-00	BRACKET, RETAINER, SUPPLY GEAR	379	3-312-418-00	RUBBER, HOLDER, LAMP	425	X-3307-920-0	PLATE ASSY, ADJUSTMENT
			341	●;3-307-445-00	SHAFT, RETAINER, SUPPLY GEAR	380	●;3-312-422-00	BRACKET, MOTOR	426	X-3307-349-1	CHASSIS ASSY, MECHANISM
			342	3-307-447-00	CLAW (R), REEL	381	●;3-312-423-00	RETAINER (H), THRUST	427	3-570-914-00	SPRING, TENSION
			343	3-307-448-00	SCREW, ADJUSTMENT, AZIMUTH	382	3-312-429-00	SPRING, COMPRESSION			
			344	●;3-307-449-00	LEVER (R), PAUSE	383	3-312-432-00	SPRING, TENSION			
			345	●;3-307-450-00	ROD, PULL, PAUSE	384	.....	.....	

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (△-△△-△△-XX or △-△△△-△△-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

COILS

- MMH : mH, UH : μ H

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (△-△△-△△-XX or △-△△△-△△-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

COILS

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			
501	A.1-526-576-31	(E).....SELECTOR, POWER VOLTAGE			
502	A.1-526-609-00	(US).....CONNECTOR, AC OUTLET			
502	A.1-526-694-00	(AEP).....CONNECTOR, AC OUTLET			
502	A.1-526-751-00	(UK).....CONNECTOR, AC OUTLET			
502	A.1-526-882-00	(Canadian)....CONNECTOR, AC OUTLET			
503	A.1-533-131-00	HOLDER, FUSE			
504	A.1-551-479-00	(E).....CORD, POWER			
504	A.1-551-628-00	(US,Canadian)....CORD, POWER			
504	A.1-555-990-00	(AEP).....CORD, POWER			
504	A.1-556-560-00	(UK).....CORD, POWER			
505	1-608-170-00	PC BOARD, HEAD TRANSLATION			
506	1-608-268-00	PC BOARD, ERASE HEAD			
507	1-609-542-00	PC BOARD, CONTROL SW			
508	1-609-543-00	PC BOARD, FL			
509	1-609-544-00	PC BOARD, TRANSLATION			
510	1-609-545-00	PC BOARD, DOLBY SWITCH			
511	1-609-545-00	PC BOARD, TAPE SWITCH			
512	1-609-547-00	PC BOARD, PHOTO			
513	1-609-548-00	PC BOARD, PLAYBACK			
514	1-609-549-00	PC BOARD, RECORD			
515	1-609-550-00	PC BOARD, REC VOL			
516	1-609-551-00	PC BOARD, JACK			
517	1-609-552-00	PC BOARD, SYSTEM CONTROL			
518	1-609-553-00	PC BOARD, 9P REMOTE CONTROL			
519	1-609-554-00	PC BOARD, TIMER SW			
520	1-609-555-00	PC BOARD, 5P REMOTE CONTROL			
521	1-609-556-00	PC BOARD, TRANSISTOR (A)			
522	1-609-741-00	PC BOARD, TRANSISTOR (B)			
523	1-610-222-00	PC BOARD, ISS			
524	A-2056-194-A	MOUNTED PCB, AUDIO			
525	A-2096-010-A	MOUNTED PCB, FL			
526	1-609-872-00	(AEP)....PC BOARD, FUSE			
C101	1-123-354-00	ELECT	3.3MF	20%	50V
C102	1-123-356-00	ELECT	10MF	20%	16V
C103	1-161-321-00	CERAMIC	680PF	10%	50V
C104	1-161-271-00	CERAMIC	100PF	5%	50V
C105	1-107-165-00	MICA	56PF	5%	500V
C106	1-161-322-00	CERAMIC	820PF	10%	50V
C107	1-107-167-00	MICA	75PF	5%	500V
C108	1-130-305-00	FILM	0.022MF	5%	100V
C109	1-123-353-00	ELECT	2.2MF	20%	50V
C110	1-108-571-00	MYLAR	0.0047MF	5%	50V
C111	1-161-316-00	CERAMIC	270PF	10%	50V
C112	1-123-319-00	ELECT	47MF	20%	16V

ELECTRICAL PARTS

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			
C113	1-123-319-00	ELECT	47MF	20%	16V
C114	1-123-353-00	ELECT	2.2MF	20%	50V
C115	1-130-630-00	FILM	0.068MF	5%	50V
C116	1-130-635-00	FILM	0.18MF	5%	50V
C117	1-130-634-00	FILM	0.15MF	5%	50V
C118	1-130-632-00	FILM	0.1MF	5%	50V
C119	1-130-621-00	FILM	0.012MF	5%	50V
C120	1-130-633-00	FILM	0.12MF	5%	50V
C121	1-130-632-00	FILM	0.1MF	5%	50V
C122	1-108-559-00	MYLAR	0.0015MF	5%	50V
C123	1-123-355-00	ELECT	10MF	20%	25V
C124	1-130-631-00	FILM	0.082MF	5%	50V
C125	1-108-575-00	MYLAR	0.0068MF	5%	50V
C126	1-130-628-00	FILM	0.047MF	5%	50V
C127	1-130-629-00	FILM	0.056MF	5%	50V
C128	1-108-570-00	MYLAR	0.0043MF	5%	50V
C129	1-123-369-00	ELECT	4.7MF	20%	50V
C130	1-123-319-00	ELECT	47MF	20%	16V
C131	1-123-319-00	ELECT	47MF	20%	16V
C132	1-123-356-00	ELECT	10MF	20%	16V
C133	1-130-634-00	FILM	0.15MF	5%	50V
C134	1-130-628-00	FILM	0.047MF	5%	50V
C135	1-130-625-00	FILM	0.027MF	5%	50V
C136	1-130-633-00	FILM	0.12MF	5%	50V
C137	1-123-356-00	ELECT	10MF	20%	25V
C138	1-130-631-00	FILM	0.082MF	5%	50V
C139	1-108-575-00	MYLAR	0.0068MF	5%	50V
C140	1-130-622-00	FILM	0.015MF	5%	50V
C141	1-130-623-00	FILM	0.018MF	5%	50V
C142	1-123-354-00	ELECT	3.3MF	20%	50V
C143	1-123-353-00	ELECT	2.2MF	20%	50V
C144	1-123-369-00	ELECT	4.7MF	20%	50V
C145	1-123-319-00	ELECT	47MF	20%	16V
C146	1-130-621-00	FILM	0.012MF	5%	50V
C147	1-108-565-00	MYLAR	0.0027MF	5%	50V
C148	1-130-627-00	FILM	0.039MF	5%	50V
C149	1-108-563-00	MYLAR	0.0022MF	5%	50V
C150	1-108-555-00	MYLAR	0.001MF	5%	50V
C151	1-130-627-00	FILM	0.039MF	5%	50V
C152	1-108-571-00	MYLAR	0.0047MF	5%	50V
C153	1-130-627-00	FILM	0.039MF	5%	50V
C154	1-141-225-00	CAP, TUNING, TRIMAR			
C155	1-161-271-00	CERAMIC	100PF	5%	50V
C156	1-123-307-00	ELECT	100MF	20%	10V
C157	1-123-307-00	ELECT	100MF	20%	10V

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers ($\Delta-\Delta\Delta-\Delta\Delta-\Delta\Delta-XX$ or $\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-X$) may be different from those used in the set.

CAPACITORS:

All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers.
MF: μF , PF: $\mu\mu\text{F}$.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

MMH : mH, UH : μH

The component identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
---------	----------	-------------

C205	1-107-165-00	MICA	56PF	5%	500V
C207	1-107-167-00	MICA	75PF	5%	500V
C208	1-130-305-00	FILM	0.022MF	5%	100V
C215	1-130-630-00	FILM	0.068MF	5%	50V
C217	1-130-634-00	FILM	0.15MF	5%	50V
C218	1-130-632-00	FILM	0.1MF	5%	50V
C219	1-130-621-00	FILM	0.012MF	5%	50V
C221	1-130-632-00	FILM	0.1MF	5%	50V
C226	1-130-628-00	FILM	0.047MF	5%	50V
C227	1-130-629-00	FILM	0.056MF	5%	50V
C233	1-130-634-00	FILM	0.15MF	5%	50V
C234	1-130-628-00	FILM	0.047MF	5%	50V
C235	1-130-625-00	FILM	0.027MF	5%	50V
C241	1-130-623-00	FILM	0.018MF	5%	50V
C246	1-130-621-00	FILM	0.012MF	5%	50V
C248	1-130-627-00	FILM	0.039MF	5%	50V
C251	1-130-627-00	FILM	0.039MF	5%	50V
C253	1-130-627-00	FILM	0.039MF	5%	50V
C254	1-141-225-00	CAP, TUNING, TRIMAR			
C503	1-123-356-00	ELECT	10MF	20%	16V
C504	1-123-308-00	ELECT	220MF	20%	10V
C505	1-123-308-00	ELECT	220MF	20%	10V
C506	1-123-354-00	ELECT	3.3MF	20%	50V
C507	1-129-714-00	FILM	0.01MF	10%	630V
C508	1-130-295-00	FILM	0.0082MF	5%	100V
C509	1-130-291-00	FILM	0.0056MF	5%	100V
C510	1-130-291-00	FILM	0.0056MF	5%	100V
C511	1-123-353-00	ELECT	2.2MF	20%	50V
C512	1-123-351-00	ELECT	0.47MF	20%	50V
C513	1-130-620-00	FILM	0.01MF	5%	50V
C514	1-123-369-00	ELECT	4.7MF	20%	50V
C515	1-123-351-00	ELECT	0.47MF	20%	50V
C516	1-123-321-00	ELECT	220MF	20%	16V
C517	1-123-321-00	ELECT	220MF	20%	16V
C518	1-123-320-00	ELECT	100MF	20%	16V
C519	1-123-320-00	ELECT	100MF	20%	16V
C520	1-123-337-00	ELECT	1000MF	20%	25V
C521	1-123-337-00	ELECT	1000MF	20%	25V
C522	1-123-369-00	ELECT	4.7MF	20%	30V
C701	1-130-632-00	FILM	0.1MF	5%	50V
C702	1-123-306-00	ELECT	47MF	20%	10V
C703	1-123-353-00	ELECT	2.2MF	20%	50V
C704	1-161-283-00	CERAMIC	22PF	5%	50V
C705	1-161-283-00	CERAMIC	22PF	5%	50V
C706	1-123-351-00	ELECT	0.47MF	20%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
---------	----------	-------------

C707	1-123-351-00	ELECT	0.47MF	20%	50V
C708	1-123-351-00	ELECT	0.47MF	20%	50V
C709	1-123-351-00	ELECT	0.47MF	20%	50V
C710	1-123-351-00	ELECT	0.47MF	20%	50V
C711	1-123-351-00	ELECT	0.47MF	20%	50V
C712	1-123-351-00	ELECT	0.47MF	20%	50V
C713	1-123-351-00	ELECT	0.47MF	20%	50V
C714	1-161-045-00	CERAMIC	0.0033MF	20%	50V
C715	1-161-045-00	CERAMIC	0.0033MF	20%	50V
C716	1-123-319-00	ELECT	47MF	20%	16V
C717	1-123-295-00	ELECT	100MF	20%	6.3V
C718	1-123-333-00	ELECT	100MF	20%	25V
C719	1-161-379-00	CERAMIC	0.01MF	20%	25V
C720	1-161-379-00	CERAMIC	0.01MF	20%	25V
C721	1-130-625-00	FILM	0.027MF	5%	50V
C722	1-130-625-00	FILM	0.027MF	5%	50V
C723	1-123-353-00	ELECT	2.2MF	20%	50V
C724	1-161-379-00	CERAMIC	0.01MF	20%	25V
C725	1-161-379-00	CERAMIC	0.01MF	20%	25V
C726	1-123-351-00	ELECT	0.47MF	20%	50V
C727	1-123-298-00	ELECT	470MF	20%	6.3V
C728	1-131-369-00	TANTALUM	4.7MF	20%	16V
C729	1-123-353-00	ELECT	2.2MF	20%	50V
C730	1-123-296-00	ELECT	220MF	20%	6.3V
C731	1-123-319-00	ELECT	47MF	20%	16V
C732	1-123-319-00	ELECT	47MF	20%	16V
C733	1-123-353-00	ELECT	2.2MF	20%	50V
C734	1-123-380-00	ELECT	1MF	20%	50V
C735	1-123-307-00	ELECT	100MF	20%	10V
C736	1-123-321-00	ELECT	220MF	20%	16V
C737	1-123-356-00	ELECT	10MF	20%	16V
C738	1-123-349-00	ELECT	1000MF	20%	35V
C739	1-123-325-00	ELECT	2200MF	20%	16V
C740	1-123-328-00	ELECT	4.7MF	20%	25V
C741	1-131-347-00	TANTALUM	1MF	20%	35V
C742	1-123-295-00	ELECT	100MF	20%	6.3V
C801	1-123-353-00	ELECT	2.2MF	20%	50V
C802	1-123-353-00	ELECT	2.2MF	20%	50V
C803	1-123-353-00	ELECT	2.2MF	20%	50V
C804	1-123-353-00	ELECT	2.2MF	20%	50V
C805	1-130-626-00	FILM	0.033MF	5%	50V
C806	1-123-332-00	ELECT	47MF	20%	25V
C1000	1-161-749-00	(US,Canadian)..CAP, CERAMIC	10000PF	125V	
C1000	1-161-744-00	(AEP,UK,E)....CAP, CERAMIC	10000PF	400V	

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.

MF: μ F, PF: $\mu\mu$ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

• F : nonflammable

COILS

• MMH : mH, UH : μ H

ELECTRICAL PARTS			ELECTRICAL PARTS			ELECTRICAL PARTS			ELECTRICAL PARTS		
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CNJ501	1-507-761-00	JACK, PIN 4P	D516	8-719-815-55	DIODE 1S1555	FLT	1-519-284-00	INDICATOR TUBE, FLUORESCENT	PM1	1-454-316-00	SOLENOID, PLUNGER
●CNJ701;1-560-263-00	CONNECTOR PIN 9P		D701	8-719-815-55	DIODE 1S1555	HE	8-825-535-20	HEAD, ERASE (ES237-36)	PM2	1-454-316-00	SOLENOID, PLUNGER
CNJ702	1-561-965-00	SOCKET 5P	D702	8-719-815-55	DIODE 1S1555	HRP	8-825-548-10	HEAD, R/P (PA242-3602)	Q101	8-729-334-58	TRANSISTOR 2SC1345
CNP1	●;1-560-061-31	PIN, CONNECTOR 3P	D703	8-719-815-55	DIODE 1S1555	IC101	8-759-300-76	IC CX-174A-2	Q102	8-729-663-48	TRANSISTOR 2SC1364-8
CNP2	●;1-560-062-41	PIN, CONNECTOR 4P	D704	8-719-815-55	DIODE 1S1555	IC102	8-759-300-76	IC CX-174A-2	Q103	8-729-663-48	TRANSISTOR 2SC1364-8
CNP3	●;1-560-060-41	PIN, CONNECTOR 2P	D705	8-719-815-55	DIODE 1S1555	IC201	8-759-300-76	IC CX-174A-2	Q104	8-729-663-48	TRANSISTOR 2SC1364-8
CNP4	●;1-560-064-00	PIN, CONNECTOR 6P	D706	8-719-200-02	DIODE 10E-2	IC202	8-759-300-76	IC CX-174A-2	Q105	8-729-663-48	TRANSISTOR 2SC1364-8
CNP5	●;1-560-060-00	PIN, CONNECTOR 2P	D707	8-719-815-55	DIODE 1S1555	IC501	8-759-700-39	IC NJM4562S-D	Q106	8-729-663-48	TRANSISTOR 2SC1364-8
CNP6	●;1-560-060-00	PIN, CONNECTOR 2P	D708	8-719-815-55	DIODE 1S1555	IC502	8-759-600-02	IC M5218L	Q107	8-729-663-48	TRANSISTOR 2SC1364-8
CNP7	●;1-560-062-41	PIN, CONNECTOR 4P	D709	8-719-990-92	DIODE HZ9A2L	IC701	8-759-640-30	IC CX564-03	Q108	8-729-663-48	TRANSISTOR 2SC1364-8
CNP8	●;1-560-062-00	PIN, CONNECTOR 4P	D710	8-719-815-55	DIODE 1S1555	IC702	8-759-600-54	IC M50783SP	Q109	8-729-663-48	TRANSISTOR 2SC1364-8
CNP9	●;1-560-062-31	PIN, CONNECTOR 4P	D712	8-719-815-55	DIODE 1S1555	IC703	8-759-812-90	IC LB1290	Q110	8-729-663-48	TRANSISTOR 2SC1364-8
●CNP502;1-560-062-41	PIN, CONNECTOR 4P	D713	8-719-200-02	DIODE 10E-2	IC704	8-759-800-57	IC LB1262	Q111	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP503;1-560-061-41	PIN, CONNECTOR 3P	D714	8-719-200-02	DIODE 10E-2	IC705	8-759-240-50	IC TC4050BP	Q112	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP701;1-560-064-21	PIN, CONNECTOR 6P	D715	8-719-200-02	DIODE 10E-2	IC706	8-759-240-50	IC TC4050BP	Q113	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP702;1-560-064-41	PIN, CONNECTOR 6P	D716	8-719-200-02	DIODE 10E-2	IC707	8-759-700-46	IC CX10034	Q114	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP703;1-560-060-00	PIN, CONNECTOR 2P	D717	8-719-931-07	DIODE EQB01-07	IC708	8-759-962-08	IC BA6208	Q115	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP704;1-560-063-00	PIN, CONNECTOR 5P	D718	8-719-910-15	DIODE HZ11B2L	IC801	8-759-905-48	IC MSL9512RS	Q116	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP705;1-560-062-00	PIN, CONNECTOR 4P	D719	8-719-910-68	DIODE HZ6C2L	IC802	8-759-906-02	IC BA6146	Q117	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP706;1-560-063-00	PIN, CONNECTOR 5P	D720	8-719-910-43	DIODE HZ24-3L	IC803	8-759-906-02	IC BA6146	Q118	8-729-100-13	TRANSISTOR 2SC2001-K2	
●CNP707;1-560-061-41	PIN, CONNECTOR 3P	D721	8-719-903-49	DIODE SLH-54PC3	L101	1-408-262-00	MICRO INDUCTOR 27MMH	Q201	8-729-334-58	TRANSISTOR 2SC1345-E	
●CNP708;1-560-061-21	PIN, CONNECTOR 3P	D722	8-719-903-49	DIODE SLH-54PC3	L102	1-408-255-00	MICRO INDUCTOR 6.8MMH	Q202	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP709;1-560-064-00	PIN, CONNECTOR 6P	D723	8-719-904-08	DIODE SLH-54VC3	L103	1-408-260-00	MICRO INDUCTOR 18MMH	Q203	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP710;1-560-060-31	PIN, CONNECTOR 2P	D724	8-719-904-07	DIODE SLH-54DC3	L104	1-408-259-00	MICRO INDUCTOR 15MMH	Q204	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP711;1-560-060-00	PIN, CONNECTOR 2P	D726	8-719-910-29	DIODE HZ12C3L	L201	1-408-262-00	MICRO INDUCTOR 27MMH	Q205	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP712;1-560-063-21	PIN, CONNECTOR 5P	D727	8-719-200-02	DIODE 10E-2	L202	1-408-255-00	MICRO INDUCTOR 6.8MMH	Q206	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP713;1-560-064-31	PIN, CONNECTOR 6P	D728	8-719-815-55	DIODE 1S1555	L203	1-408-260-00	MICRO INDUCTOR 18MMH	Q207	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP714;1-560-060-41	PIN, CONNECTOR 2P	D729	8-719-815-55	DIODE 1S1555	L204	1-408-259-00	MICRO INDUCTOR 15MMH	Q208	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP715;1-560-060-21	PIN, CONNECTOR 2P	D730	8-719-101-44	DIODE RD4.3EL3	L501	1-407-177-XX	MICRO INDUCTOR 470UH	Q209	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP716;1-560-061-00	PIN, CONNECTOR 3P	D801	8-719-911-19	DIODE ISS119	L701	1-407-169-XX	MICRO INDUCTOR 100UH	Q210	8-729-663-48	TRANSISTOR 2SC1364-8	
●CNP717;1-560-061-00	PIN, CONNECTOR 3P	D802	8-719-911-19	DIODE ISS119	L702	1-407-169-XX	MICRO INDUCTOR 100UH	Q211	8-729-663-48	TRANSISTOR 2SC1364-8	
D501	8-719-815-55	DIODE 1S1555	D803	8-719-911-19	DIODE ISS119	L703	1-407-169-XX	MICRO INDUCTOR 100UH	Q212	8-729-663-48	TRANSISTOR 2SC1364-8
D502	8-719-815-55	DIODE 1S1555	D804	8-719-911-19	DIODE ISS119	L704	1-407-169-XX	MICRO INDUCTOR 100UH	Q213	8-729-663-48	TRANSISTOR 2SC1364-8
D503	8-719-815-55	DIODE 1S1555	D805	8-719-910-66	DIODE HZ6B3L	L705	1-407-169-XX	MICRO INDUCTOR 100UH	Q214	8-729-663-48	TRANSISTOR 2SC1364-8
D504	8-719-815-55	DIODE 1S1555	D806	8-719-904-14	DIODE PY5724K	L706	1-407-169-XX	MICRO INDUCTOR 100UH	Q215	8-729-663-48	TRANSISTOR 2SC1364-8
D505	8-719-815-55	DIODE 1S1555	D807	8-719-904-14	DIODE PY5724K	L707	1-407-169-XX	MICRO INDUCTOR 100UH	Q216	8-729-663-48	TRANSISTOR 2SC1364-8
D506	8-719-815-55	DIODE 1S1555	D808	8-719-904-14	DIODE PY5724K	L708	1-407-169-XX	MICRO INDUCTOR 100UH	Q217	8-729-663-48	TRANSISTOR 2SC1364-8
D507	8-719-815-55	DIODE 1S1555	D809	8-719-904-14	DIODE PY5724K	L709	1-407-169-XX	MICRO INDUCTOR 100UH	Q218	8-729-100-13	TRANSISTOR 2SC2001-K2
D508	8-719-815-55	DIODE 1S1555	D811	8-719-903-49	DIODE SLH-54PC3	LPF101	1-231-388-00	FILTER, LOWPASS	Q501	8-729-663-48	TRANSISTOR 2SC1364-8
D509	8-719-910-64	DIODE HZ6B1L	D812	8-719-903-49	DIODE SLH-54PC3	LPF201	1-231-388-00	FILTER, LOWPASS	Q502	8-729-602-67	TRANSISTOR 2SA1026-7
D510	8-719-910-64	DIODE HZ6B1L	F1	1-532-536-00	(US,Canadian)...FUSE, GLASS-TUBE	M1	X-3307-340-0	MOTOR (H) ASSY	Q503	8-729-663-48	TRANSISTOR 2SC1364-8
D511	8-719-200-02	DIODE 10E-2	F1	1-532-078-00	(AEP,UK,E)...FUSE, TIME-LAG	M2	X-3312-903-0	MOTOR (L) ASSY	Q504	8-729-663-48	TRANSISTOR 2SC1364-8
D512	8-719-200-02	DIODE 10E-2	F2	1-532-536-00	(US,Canadian)...FUSE, GLASS-TUBE	PL901	1-518-259-00	LAMP, PILOT	Q505	8-729-663-47	TRANSISTOR 2SC1364
D513	8-719-200-02	DIODE 10E-2	F2	1-532-078-00	(AEP)...FUSE, TIME-LAG				Q506	8-729-663-47	TRANSISTOR 2SC1364
D514	8-719-200-02	DIODE 10E-2	F3	1-532-078-00	(AEP)...FUSE, TIME-LAG			</td			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q507	8-729-663-48	TRANSISTOR	2SC1364-8		
Q508	8-729-602-67	TRANSISTOR	2SA1026-7		
Q509	8-729-663-48	TRANSISTOR	2SC1364-8		
Q510	8-729-663-48	TRANSISTOR	2SC1364-8		
Q511	8-729-602-67	TRANSISTOR	2SA1026-7		
Q512	8-729-141-42	TRANSISTOR	2SD414		
Q513	8-729-315-22	TRANSISTOR	2SD1152		
Q514	8-729-315-22	TRANSISTOR	2SD1152		
Q515	8-729-203-02	TRANSISTOR	2SK30A-0		
Q516	8-729-384-48	TRANSISTOR	2SA844		
Q517	8-729-384-48	TRANSISTOR	2SA844		
Q518	8-729-154-83	TRANSISTOR	2SB548		
Q519	8-729-203-02	TRANSISTOR	2SK30A-0		
Q701	8-729-602-67	TRANSISTOR	2SA1026-7		
Q702	8-729-602-67	TRANSISTOR	2SA1026-7		
Q703	8-729-663-47	TRANSISTOR	2SC1364		
Q704	8-729-663-47	TRANSISTOR	2SC1364		
Q705	8-729-602-67	TRANSISTOR	2SA1026-7		
Q706	8-729-177-43	TRANSISTOR	2SD774		
Q707	8-729-663-47	TRANSISTOR	2SC1364		
Q708	8-729-201-78	TRANSISTOR	2SD1406		
Q709	8-729-602-67	TRANSISTOR	2SA1026-7		
Q711	8-729-663-47	TRANSISTOR	2SC1364		
Q712	8-729-180-92	TRANSISTOR	2SD809-K		
Q713	8-729-602-67	TRANSISTOR	2SA1026-7		
Q714	8-729-663-47	TRANSISTOR	2SC1364		
Q715	8-729-663-47	TRANSISTOR	2SC1364		
Q717	8-729-602-67	TRANSISTOR	2SA1026-7		
Q718	8-729-602-67	TRANSISTOR	2SA1026-7		
Q719	8-729-602-67	TRANSISTOR	2SA1026-7		
Q720	8-729-602-67	TRANSISTOR	2SA1026-7		
Q901	8-729-110-21	TRANSISTOR	PH102-K		
Q902	8-729-110-21	TRANSISTOR	PH102-K		
R005	1-246-489-00	CARBON	4.7K 5%	1/4W	
R006	1-246-489-00	CARBON	4.7K 5%	1/4W	
R101	1-246-509-00	CARBON	33K 5%	1/4W	
R102	1-246-473-00	CARBON	1K 5%	1/4W	
R103	1-246-529-00	CARBON	220K 5%	1/4W	
R104	1-246-489-00	CARBON	4.7K 5%	1/4W	
R105	1-246-473-00	CARBON	1K 5%	1/4W	
R106	1-246-485-00	CARBON	3.3K 5%	1/4W	
R107	1-246-465-00	CARBON	470 5%	1/4W	
R108	1-246-493-00	CARBON	6.8K 5%	1/4W	
R109	1-246-473-00	CARBON	1K 5%	1/4W	
R110	1-246-506-00	CARBON	24K 5%	1/4W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R111	1-214-705-00	METAL	150	1%	1/4W
R112	1-246-524-00	CARBON	130K	5%	1/4W
R113	1-214-746-00	METAL	5.1K	1%	1/4W
R114	1-246-497-00	CARBON	10K	5%	1/4W
R116	1-246-499-00	CARBON	12K	5%	1/4W
R117	1-246-503-00	CARBON	18K	5%	1/4W
R118	1-246-529-00	CARBON	220K	5%	1/4W
R119	1-246-473-00	CARBON	1K	5%	1/4W
R120	1-247-903-00	CARBON	1M	5%	1/6W
R121	1-246-501-00	CARBON	15K	5%	1/4W
R122	1-246-501-00	CARBON	15K	5%	1/4W
R123	1-246-501-00	CARBON	15K	5%	1/4W
R124	1-247-859-00	CARBON	15K	5%	1/6W
R125	1-246-545-00	CARBON	1M	5%	1/4W
R126	1-247-888-00	CARBON	240K	5%	1/6W
R127	1-247-888-00	CARBON	240K	5%	1/6W
R128	1-247-865-00	CARBON	27K	5%	1/6W
R129	1-247-857-00	CARBON	12K	5%	1/6W
R130	1-247-859-00	CARBON	15K	5%	1/6W
R131	1-246-492-00	CARBON	6.2K	5%	1/4W
R132	1-246-436-00	CARBON	30	5%	1/4W
R133	1-246-502-00	CARBON	16K	5%	1/4W
R134	1-247-803-00	CARBON	68	5%	1/6W
R135	1-246-545-00	CARBON	1M	5%	1/4W
R136	1-247-886-00	CARBON	200K	5%	1/6W
R137	1-247-839-00	CARBON	2.2K	5%	1/6W
R138	1-246-501-00	CARBON	15K	5%	1/4W
R139	1-246-545-00	CARBON	1M	5%	1/4W
R140	1-246-509-00	CARBON	33K	5%	1/4W
R141	1-246-508-00	CARBON	30K	5%	1/4W
R142	1-246-475-00	CARBON	1.2K	5%	1/4W
R143	1-246-455-00	CARBON	180	5%	1/4W
R144	1-246-453-00	CARBON	150	5%	1/4W
R145	1-246-459-00	CARBON	270	5%	1/4W
R146	1-246-533-00	CARBON	330K	5%	1/4W
R147	1-214-737-00	METAL	2.2K	1%	1/4W
R148	1-247-859-00	CARBON	15K	5%	1/6W
R149	1-246-504-00	CARBON	20K	5%	1/4W
R150	1-246-485-00	CARBON	3.3K	5%	1/4W
R151	1-246-497-00	CARBON	10K	5%	1/4W
R152	1-246-485-00	CARBON	3.3K	5%	1/4W
R153	1-246-529-00	CARBON	220K	5%	1/4W
R154	1-247-888-00	CARBON	240K	5%	1/6W
R155	1-247-888-00	CARBON	240K	5%	1/6W
R156	1-247-821-00	CARBON	390	5%	1/6W

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ uF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

• F : nonflammable

COILS

• MMH : mH, UH : μ H

ELECTRICAL PARTS

Ref. No.	Part No.	Description	Value	Power
R157	1-247-871-00	CARBON	47K	5% 1/6W
R158	1-214-966-00	METAL	1.2M	1% 1/4W
R159	1-246-490-00	CARBON	5.1K	5% 1/4W
R160	1-246-502-00	CARBON	16K	5% 1/4W
R161	1-246-475-00	CARBON	1.2K	5% 1/4W
R162	1-246-467-00	CARBON	560	5% 1/4W
R163	1-246-510-00	CARBON	36K	5% 1/4W
R164	1-246-473-00	CARBON	1K	5% 1/4W
R165	1-246-477-00	CARBON	1.5K	5% 1/4W
R166	1-246-484-00	CARBON	3K	5% 1/4W
R167	1-246-533-00	CARBON	330K	5% 1/4W
R168	1-246-511-00	CARBON	39K	5% 1/4W
R169	1-246-490-00	CARBON	5.1K	5% 1/4W
R170	1-247-830-00	CARBON	910	5% 1/6W
R171	1-246-457-00	CARBON	220	5% 1/4W
R172	1-246-501-00	CARBON	15K	5% 1/4W
R173	1-246-507-00	CARBON	27K	5% 1/4W
R174	1-246-493-00	CARBON	6.8K	5% 1/4W
R175	1-246-473-00	CARBON	1K	5% 1/4W
R176	1-246-529-00	CARBON	220K	5% 1/4W
R177	1-246-473-00	CARBON	1K	5% 1/4W
R178	1-214-737-00	METAL	2.2K	1% 1/4W
R179	1-247-839-00	CARBON	2.2K	5% 1/6W
R180	1-246-497-00	CARBON	10K	5% 1/4W
R181	1-246-509-00	CARBON	33K	5% 1/4W
R182	1-246-521-00	CARBON	100K	5% 1/4W
R183	1-246-521-00	CARBON	100K	5% 1/4W
R184	1-246-473-00	CARBON	1K	5% 1/4W
R185	1-246-519-00	CARBON	82K	5% 1/4W
R186	1-246-519-00	CARBON	82K	5% 1/4W
R187	1-247-871-00	CARBON	47K	5% 1/6W
R188	1-247-841-00	CARBON	2.7K	5% 1/6W
R189	1-247-807-00	CARBON	100	5% 1/6W
R190	1-247-855-00	CARBON	10K	5% 1/6W
R191	1-247-829-00	CARBON	820	5% 1/6W
R192	1-247-863-00	CARBON	22K	5% 1/6W
R193	1-247-848-00	CARBON	5.1K	5% 1/6W
R194	1-247-823-00	CARBON	470	5% 1/6W
R195	1-247-855-00	CARBON	10K	5% 1/6W
R196	1-247-833-00	CARBON	1.2K	5% 1/6W
R197	1-247-839-00	CARBON	2.2K	5% 1/6W
R198	1-247-826-00	CARBON	620	5% 1/6W
R199	1-247-848-00	CARBON	5.1K	5% 1/6W
R200	1-214-746-00	METAL	5.1K	1% 1/4W
R201	1-214-737-00	METAL	2.2K	1% 1/4W

ELECTRICAL PARTS

Ref. No.	Part No.	Description	Value	Power	Ref. No.	P
R258	1-214-966-00	METAL	1.2M	1% 1/4W	R534	1
R278	1-214-737-00	METAL	2.2K	1% 1/4W	R535	1
R301	1-247-845-00	CARBON	3.9K	5% 1/6W	R536	1
R302	1-247-863-00	CARBON	22K	5% 1/6W	R537	1
R303	1-247-863-00	CARBON	22K	5% 1/6W	R538	1
R304	1-247-863-00	CARBON	22K	5% 1/6W	R539	1
R305	1-247-863-00	CARBON	22K	5% 1/6W	R540	1
R306	1-246-497-00	CARBON	10K	5% 1/4W	R541	1
R401	1-247-845-00	CARBON	3.9K	5% 1/6W	R555	A.1
R402	1-247-863-00	CARBON	22K	5% 1/6W	R556	A.1
R403	1-247-863-00	CARBON	22K	5% 1/6W	R557	1
R404	1-247-863-00	CARBON	22K	5% 1/6W	R558	1
R405	1-247-863-00	CARBON	22K	5% 1/6W	R701	1
R406	1-246-497-00	CARBON	10K	5% 1/4W	R702	1
R501	1-246-489-00	CARBON	4.7K	5% 1/4W	R703	1
R502	1-246-505-00	CARBON	22K	5% 1/4W	R704	1
R503	1-246-513-00	CARBON	47K	5% 1/4W	R705	1
R504	1-246-521-00	CARBON	100K	5% 1/4W	R706	1
R505	1-246-465-00	CARBON	470	5% 1/4W	R707	1
R506	1-246-465-00	CARBON	470	5% 1/4W	R708	1
R507	1-246-497-00	CARBON	10K	5% 1/4W	R709	1
R508	1-246-489-00	CARBON	4.7K	5% 1/4W	R710	1
R509	1-246-509-00	CARBON	33K	5% 1/4W	R711	1
R510	1-246-507-00	CARBON	27K	5% 1/4W	R712	1
R511	1-246-507-00	CARBON	27K	5% 1/4W	R713	1
R512	1-246-427-00	CARBON	12	5% 1/4W	R714	1
R513	A.1-217-531-00	FUSIBLE	47	5% 1/4W F	R715	1
R514	1-246-497-00	CARBON	10K	5% 1/4W	R716	1
R515	1-246-513-00	CARBON	47K	5% 1/4W	R717	1
R516	1-246-495-00	CARBON	8.2K	5% 1/4W	R718	1
R517	1-246-497-00	CARBON	10K	5% 1/4W	R719	1
R518	1-246-489-00	CARBON	4.7K	5% 1/4W	R720	1
R521	1-246-505-00	CARBON	22K	5% 1/4W	R721	1
R522	1-246-513-00	CARBON	47K	5% 1/4W	R722	1
R523	1-246-449-00	CARBON	100	5% 1/4W	R723	1
R524	1-246-509-00	CARBON	33K	5% 1/4W	R724	1
R525	1-246-487-00	CARBON	3.9K	5% 1/4W	R725	1
R526	1-214-725-00	METAL	680	1% 1/4W	R726	1
R527	1-214-730-00	METAL	1.1K	1% 1/4W	R727	1
R528	1-214-730-00	METAL	1.1K	1% 1/4W	R728	1
R529	1-214-725-00	METAL	680	1% 1/4W	R729	1
R530	1-246-497-00	CARBON	10K	5% 1/4W	R730	1
R531	1-246-497-00	CARBON	10K	5% 1/4W	R731	1
R532	1-247-863-00	CARBON	22K	5% 1/6W	R732	1
R533	1-247-871-00	CARBON	47K	5% 1/6W	R733	1

CAPACITORS:

• All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
MF: μ F, PF: μ F.

RESISTORS

• All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

• F : nonflammable

COILS

• MMH : mH, UH : μ H

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:

- Items with no description are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Standardization, parts with part numbers (L-L-L-L-L-L-L-XX or A-A-A-A-A-A-A-X) different from those used in the
- Items with no description are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, part numbers (L-L-L-L-L-L-L-XX) may be different.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R534	1-247-863-00	CARBON 22K 5% 1/6W
R535	1-246-487-00	CARBON 3.9K 5% 1/4W
R536	1-246-480-00	CARBON 2K 5% 1/4W
R537	1-246-485-00	CARBON 3.3K 5% 1/4W
R538	1-246-467-00	CARBON 560 5% 1/4W
R539	1-246-529-00	CARBON 220K 5% 1/4W
R540	1-246-497-00	CARBON 10K 5% 1/4W
R541	1-246-521-00	CARBON 100K 5% 1/4W
R555 Δ 1-212-849-00	FUSIBLE 4.7 5% 1/4W F	
R556 Δ 1-212-849-00	FUSIBLE 4.7 5% 1/4W F	
R557	1-246-471-00	CARBON 820 5% 1/4W
R558	1-246-471-00	CARBON 820 5% 1/4W
R701	1-246-521-00	CARBON 100K 5% 1/4W
R702	1-246-521-00	CARBON 100K 5% 1/4W
R703	1-246-497-00	CARBON 10K 5% 1/4W
R704	1-246-477-00	CARBON 1.5K 5% 1/4W
R705	1-247-871-00	CARBON 47K 5% 1/6W
R706	1-246-505-00	CARBON 22K 5% 1/4W
R707	1-246-505-00	CARBON 22K 5% 1/4W
R708	1-246-505-00	CARBON 22K 5% 1/4W
R709	1-246-505-00	CARBON 22K 5% 1/4W
R710	1-246-505-00	CARBON 22K 5% 1/4W
R711	1-246-505-00	CARBON 22K 5% 1/4W
R712	1-246-505-00	CARBON 22K 5% 1/4W
R713	1-246-505-00	CARBON 22K 5% 1/4W
R714	1-246-473-00	CARBON 1K 5% 1/4W
R715	1-246-473-00	CARBON 1K 5% 1/4W
R716	1-246-473-00	CARBON 1K 5% 1/4W
R717	1-246-473-00	CARBON 1K 5% 1/4W
R718	1-246-473-00	CARBON 1K 5% 1/4W
R719	1-246-473-00	CARBON 1K 5% 1/4W
R720	1-246-473-00	CARBON 1K 5% 1/4W
R721	1-246-473-00	CARBON 1K 5% 1/4W
R722	1-246-457-00	CARBON 220 5% 1/4W
R723	1-246-457-00	CARBON 220 5% 1/4W
R724	1-246-459-00	CARBON 270 5% 1/4W
R725	1-246-459-00	CARBON 270 5% 1/4W
R726	1-247-871-00	CARBON 47K 5% 1/6W
R727	1-247-863-00	CARBON 22K 5% 1/6W
R728	1-247-863-00	CARBON 22K 5% 1/6W
R729	1-247-871-00	CARBON 47K 5% 1/6W
R730	1-247-895-00	CARBON 470K 5% 1/6W
R731	1-246-537-00	CARBON 470K 5% 1/4W
R732	1-246-513-00	CARBON 47K 5% 1/4W
R733	1-246-513-00	CARBON 47K 5% 1/4W

NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 • Due to standardization, parts with part numbers (L-△△-△△-XX or △-△△△-△△-X) may be different from those used in the set.

CAPACITORS:
 • All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μ F, PF: μ PF.
 RESISTORS
 • All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
 • F : nonflammable
 COILS
 • MMH : mH, UH : μ H

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R734	1-246-497-00	CARBON 10K 5% 1/4W
R735	1-246-505-00	CARBON 22K 5% 1/4W
R736	1-244-867-00	CARBON 560 5% 1/2W
R738	1-246-475-00	CARBON 1.2K 5% 1/4W
R739	1-246-489-00	CARBON 4.7K 5% 1/4W
R740	1-246-497-00	CARBON 10K 5% 1/4W
R743	1-246-412-00	CARBON 3 5% 1/4W
R744	1-246-473-00	CARBON 1K 5% 1/4W
R745	1-246-489-00	CARBON 4.7K 5% 1/4W
R746	1-247-821-91	CARBON 390 5% 1/6W
R747	1-244-867-00	CARBON 560 5% 1/2W
R748	1-246-490-00	CARBON 5.1K 5% 1/4W
R749	1-246-505-00	CARBON 22K 5% 1/4W
R750	1-246-505-00	CARBON 22K 5% 1/4W
R751	1-246-521-00	CARBON 100K 5% 1/4W
R752	1-246-513-00	CARBON 47K 5% 1/4W
R753	1-247-863-00	CARBON 22K 5% 1/6W
R754	1-247-847-00	CARBON 4.7K 5% 1/6W
R755	1-246-477-00	CARBON 1.5K 5% 1/4W
R756	1-246-477-00	CARBON 1.5K 5% 1/4W
R757	1-246-505-00	CARBON 22K 5% 1/4W
R758	1-246-531-00	CARBON 270K 5% 1/4W
R759	1-246-449-00	CARBON 100 5% 1/4W
R760	1-246-497-00	CARBON 10K 5% 1/4W
R761	1-246-505-00	CARBON 22K 5% 1/4W
R762	1-246-512-00	CARBON 43K 5% 1/4W
R763	1-246-495-00	CARBON 8.2K 5% 1/4W
R764	1-246-473-00	CARBON 1K 5% 1/4W
R765	1-246-489-00	CARBON 4.7K 5% 1/4W
R766	1-246-513-00	CARBON 47K 5% 1/4W
R767	1-244-857-00	CARBON 220 5% 1/2W
R769	1-214-764-00	METAL 30K 1% 1/4W
R770	1-246-489-00	CARBON 4.7K 5% 1/4W
R771	1-246-505-00	CARBON 22K 5% 1/4W
R772	1-246-467-00	CARBON 560 5% 1/4W
R773	1-246-489-00	CARBON 4.7K 5% 1/4W
R774	1-246-439-00	CARBON 39 5% 1/4W
R775	1-244-882-00	CARBON 2.4K 5% 1/2W
R776	1-246-441-00	CARBON 47 5% 1/4W
R778	1-246-513-00	CARBON 47K 5% 1/4W
R801	1-247-883-00	CARBON 150K 5% 1/6W
R802	1-247-855-00	CARBON 10K 5% 1/6W
R803	1-247-883-00	CARBON 150K 5% 1/6W
R804	1-247-855-00	CARBON 10K 5% 1/6W
R805	1-247-855-00	CARBON 10K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R806	1-247-813-00	CARBON 180 5% 1/6W
R807	1-247-825-00	CARBON 560 5% 1/6W
R808	1-246-451-00	CARBON 120 5% 1/4W
RV101	1-226-236-00	RES, ADJ, CARBON 10K
RV102	1-226-237-00	RES, ADJ, CARBON 20K
RV103	1-226-236-00	RES, ADJ, CARBON 10K
RV201	1-226-236-00	RES, ADJ, CARBON 10K
RV202	1-226-237-00	RES, ADJ, CARBON 20K
RV203	1-226-236-00	RES, ADJ, CARBON 10K
RV501	1-226-991-00	RES, VAR, SLIDE 20K/20K
RY501	1-515-473-00	RELAY
S1	1-554-410-00	SWITCH, LEAF
S2	1-554-411-00	SWITCH, PUSH (1 KEY)
S3	1-554-422-00	SWITCH, PUSH (1 KEY)
S4	1-554-411-00	SWITCH, PUSH (1 KEY)
S5	1-554-411-00	SWITCH, PUSH (1 KEY)
S501	1-554-423-00	SWITCH, SLIDE
S502	1-553-802-00	SWITCH, SLIDE
S701	1-554-303-00	SWITCH, KEY BOARD
S702	1-554-303-00	SWITCH, KEY BOARD
S703	1-554-303-00	SWITCH, KEY BOARD
S704	1-554-303-00	SWITCH, KEY BOARD
S705	1-554-303-00	SWITCH, KEY BOARD
S706	1-554-303-00	SWITCH, KEY BOARD
S707	1-554-303-00	SWITCH, KEY BOARD
S708	1-554-303-00	SWITCH, KEY BOARD

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S710	1-554-208-00	SWITCH, SLIDE
S711	1-554-078-00	SWITCH, SLIDE
S801	1-554-303-00	SWITCH, KEY BOARD
S802	1-554-303-00	SWITCH, KEY BOARD
S803	1-554-303-00	SWITCH, KEY BOARD
S804	1-554-303-00	SWITCH, KEY BOARD
AS1000	1-553-319-00	(US,Canadian)...SWITCH, PUSH (AC POWER)
AS1000	1-553-318-00	(AEP,E)...SWITCH, PUSH (AC POWER)
AS1000	1-553-447-00	(UK)...SWITCH, PUSH (AC POWER)
T501	1-433-257-00	TRANSFORMER, BIAS OSCILLATOR
AT1000	1-447-585-00	(US,Canadian)...TRANSFORMER, POWER
AT1000	1-447-584-00	(AEP,UK)...TRANSFORMER, POWER
AT1000	1-447-588-00	(E)...TRANSFORMER, POWER
TH701	1-800-194-11	THERMISTORCDIRECT-HEATING DISK
TH702	1-800-194-11	THERMISTORCDIRECT-HEATING DISK
W2	♦1-535-115-00	TERMINAL
W3	♦1-535-116-00	TERMINAL
W4	♦1-535-117-00	TERMINAL
W5	♦1-535-115-00	TERMINAL
X701</td		